Form 3160-3 FORM APPROVED (September 2001) OMB No. 1004-0136 Expires January 31, 2004 UNITED STATES DEPARTMENT OF THE INTERIOR 5. Lease Serial No. **BUREAU OF LAND MANAGEMENT** UTU-30096 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: M DRILL ☐ REENTER Wells Draw Unit 8. Lease Name and Well No. 1b. Type of Well: A Oil Well Gas Well Other Single Zone Multiple Zone Wells Draw Federal C-5-9-16 2. Name of Operator 9. API Well No **Newfield Production Company** 43013-33753 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Route #3 Box 3630, Myton UT 84052 (435) 646-3721 Monument Butte Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T., R., M., or Blk. and Survey or Area SE/SW 731' FSL 2017' FWL Sec. 32, T8S R16E Sec 32. T85. R16E At proposed prod. zone NE/NW (LOT #3) 0' FNL 2645' FWL Sec. 5, T9S R16E 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State Approximatley 13.7 miles southwest of Myton, Utah Duchesne UT 15. Distance from proposed\* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to neares property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 0' f/lse, 2645' f/unit 602.24 20 Acres 18. Distance from proposed location\* 20. BLM/BIA Bond No. on file 19. Proposed Depth to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1313' UTB000192 6400 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 5782' GL 4th Quarter 2007 Approximately seven (7) days from spud to rig release 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification. Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signature Name (Printed/Typed) Mandie Crozier 7/31/07 Title Regulatory Specialist D1-08-08 Office ENVIRONMENTAL MANAGER Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Surf 572930X 44355804 40.069215 -110.144719

\*(Instructions on reverse)

Federal Approval of the Action is Necessary

44353544

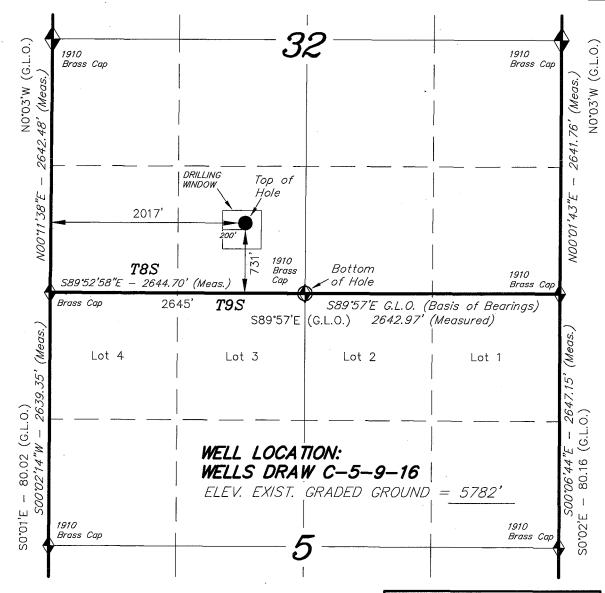
40.64717

-110.14254

RECEIVED AUG 2 0 2007

DIV. OF OIL, GAS & MINING

## R16E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SW) WELLS DRAW C-5-9-16 (Surface Location) NAD 83 LATITUDE = 40° 04' 09.07" LONGITUDE = 110° 08' 43.83"

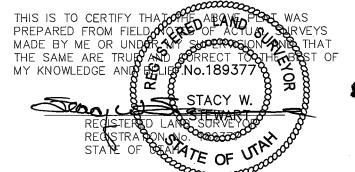
#### NEWFIELD PRODUCTION COMPANY

WELL LOCATION, WELLS DRAW C-5-9-16, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



#### Note:

- 1. The bottom of hole bears S40°29'36"E 962.92' from the Top of Hole.
- 2. The bottom of hole footages are 0' FNL & 2645' FWL.



#### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. – VERNAL, UTAH 84078 (435) 781–2501

_ ` ` '	
DATE SURVEYED: 04-25-07	SURVEYED BY: K.G.S.
DATE DRAWN: 05-22-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

#### NEWFIELD PRODUCTION COMPANY WELLS DRAW FEDERAL #C-5-9-16 AT SURFACE: SE/SW SECTION 32, T8S, R16E AT PROPOSED ZONE: NE/NW SECTION 5, T9S, R16E

**DUCHESNE COUNTY, UTAH** 

#### ONSHORE ORDER NO. 1

#### **DRILLING PROGRAM**

#### 1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta Green River 0' - 2370' 2370'

Wasatch

6400'

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2370' - 6400' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. <u>MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:</u>

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. <u>AUXILIARY SAFETY EQUIPMENT TO BE USED:</u>

Please refer to the Monument Butte Field SOP.

#### 8. <u>TESTING, LOGGING AND CORING PROGRAMS:</u>

Please refer to the Monument Butte Field SOP.

#### 9. <u>ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:</u>

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### NEWFIELD PRODUCTION COMPANY WELLS DRAW FEDERAL #C-5-9-16

#### AT SURFACE: SE/SW SECTION 32, T8S, R16E AT PROPOSED ZONE: NE/NW SECTION 5, T9S, R16E DUCHESNE COUNTY, UTAH

#### **ONSHORE ORDER NO. 1**

#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Wells Draw Federal #C-5-9-16 located in the SE 1/4 SW 1/4 Section 32, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.2 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 5.6 miles  $\pm$  to it's junction with an existing road to the northwest; proceed northwesterly - 510'  $\pm$  to the existing State 24-32 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal

#### 2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing State 24-32 well pad. See attached **Topographic Map "B"**.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the existing State 24-32 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Wells Draw Federal C-5-9-16.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Carlsbad Canyon. All facilities will be painted within six months of installation

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Fresh water purchased from the Johnson Water District will be used for drilling. A temporary poly pipeline may be used for water transportation from our existing supply line from Johnson Water District, or trucked from Newfield Production Company's injection facilities — See Exhibit "A".

#### 6. SOURCE OF CONSTRUCTION MATERIALS

The proposed Wells Draw Federal C-5-9-16 will be drilled off of the existing State 24-32 well pad. No additional surface disturbance will be required for this location.

#### 7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

#### 8. <u>ANCILLARY FACILITIES</u>

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

#### 9. WELL SITE LAYOUT

See attached Location Layout Sheet.

#### Fencing Requirements

All pits will be fenced according to the following minimum standards:

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup

#### 10. PLANS FOR RESTORATION OF SURFACE

#### a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

#### b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

#### 11. SURFACE OWNERSHIP - State of Utah.

#### 12. OTHER ADDITIONAL INFORMATION

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the South Wells Draw Federal C-5-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Wells Draw Federal C-5-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

Newfield Production Company requests 560' of disturbed area be granted in Lease ML-21836 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

The Archaeological Resource Survey and Paleontological Resource Survey for the 560' of proposed water pipeline is attached. MOAC Report #07-286, 8/3/07. See attached report cover page, Exhibit "D".

## 13. <u>LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION</u> Representative

Name:

Dave Allred

Address:

Route #3 Box 3630 Myton, UT 84052

Telephone:

(435) 646-3721

#### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #C-5-9-16 Section 5, Township 9S, Range 16E: Lease UTU-30096 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and

subcontractors in conformity with this plan and the approved. This statement is subject to the provisio	
statement. 8/4/07	Mantie Croxis
Date	Mandie Crozier Regulatory Specialist Newfield Production Company

CULTURAL RESOURCE INVENTORY OF NEWFIELD EXPLORATION'S 12 PROPOSED WATERLINES: AU J-1, AU S-12, GB II G-28 HAWKEYE G-26, MB NE 1-25, SW L-31 SWD B-8, SWD L-10, SWD M-10 SWD N-10, SWD R-4 AND WD C-5 DUCHESNE COUNTY, UTAH ExhibitaD"

Ву:

Jacki A. Montgomery

Prepared For:

Bureau of Land Management
Vernal Field Office
and
State of Utah
School and Institutional
Trust Lands Administration

Prepared Under Contract With:

Newfield Exploration Company Rt. 3 Box 3630 Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

MOAC Report No. 07-286

August 3, 2007

United States Department of Interior (FLPMA)
Permit No. 07-UT-60122

State of Utah Antiquities Project (Survey) Permit No. U-07-MQ-0931bs



Project: Duchesne County, UT Site: Wells Draw C-5-9-16

Well: Wells Draw C-5-9-16

110° 8' 43.830 W

Wellbore: OH Design: Plan #1



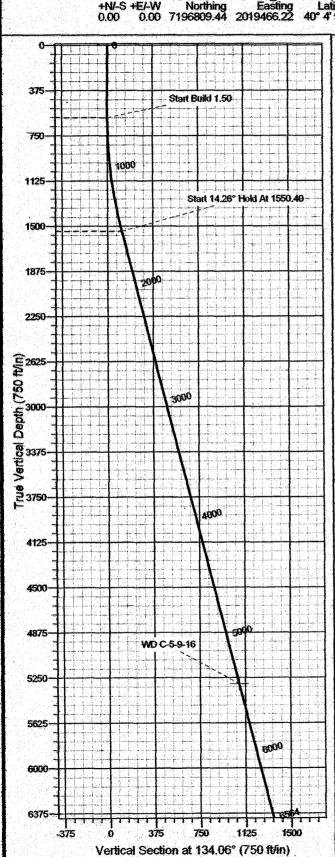
M Azimuth Magnet Stren Di

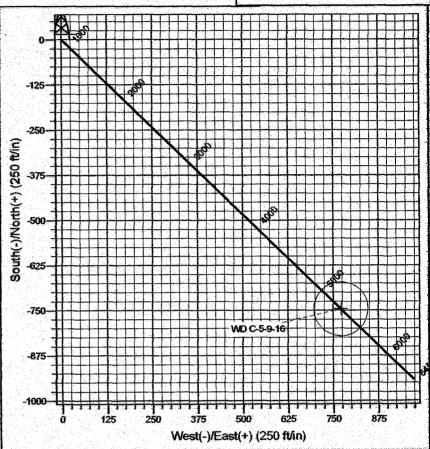
Azimuths to True North Magnetic North: 11.84°

> Magnetic Field Strength: 52678.8nT Dip Angle: 65.90° Date: 2007-07-11 Model: IGRF2005-10

#### WELL DETAILS: Wells Draw C-5-9-16

GL 5782' & RKB 12' @ 5794.00ft (NDSI 2) +N/-S +E/-W Northing Easting Latitude Lor 0.00 0.00 7196809.44 2019466.22 40° 4' 9.070 N





FORMATION TOP DETAILS	Plan: Plan #1 (Wells Draw C-5-9-16/OH)
	Created By: Rex Hall Date: 2007-07-11

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone

System Datum: Mean Sea Level Local North: True

#### SECTION DETAILS

1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
3 1550.40 14.26 134.06 1540.62 81.79 84.53 1.50 134.06 117.63	
4 5429.22 14.26 134.06 5300.00 -746.00 770.97 0.00 0.00 1072.80 WD C-5-9-	16
5 6564.17 14.26 134.06 6400.00 -940.34 971.82 0.00 0.00 1352.29	t i la er

# **Newfield Exploration Co.**

Duchesne County, UT Wells Draw C-5-9-16 Wells Draw C-5-9-16 OH

Plan: Plan #1

# **Standard Planning Report**

11 July, 2007

#### Scientific Drilling

Planning Report

Database: Company: MultiUserEDM

Newfield Exploration Co. Duchesne County, UT

Project: Site: Wall.

Wells Draw C-5-9-16 Wells Draw C-5-9-16

Wellbore: Design:

ОН Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Wells Draw C-5-9-16

GL 5782' & RKB 12' @ 5794.00ft (NDSI 2) GL 5782' & RKB 12' @ 5794.00ft (NDSI 2)

Minimum Curvature

Project

Duchesne County, UT

Map System: Geo Datum:

US State Plane 1983

Map Zone:

North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Site

Well

Wells Draw C-5-9-16, Sec 32 T8S R16E

0.00 ft

Site Position:

Northing:

7,196,809.44ft

Latitude:

40° 4' 9.070 N

From: Position Uncertainty: Lat/Long

Easting: Slot Radius: 2,019,466.22ft

Longitude: Grid Convergence: 110° 8' 43.830 W

0.87 °

Wells Draw C-5-9-16, 731' FSL & 2017' FWL Northing:

7,196,809.44 ft

Latitude:

40° 4' 9.070 N

**Position Uncertainty** 

+N/-S +E/-W 0.00 ft 0.00 ft

0.00 ft

Easting: Wellhead Elevation: 2,019,466.22 ft

Longitude: Ground Level: 110° 8' 43.830 W 5,782.00 ft

Wellbore

Well Position

ОН

Model Name Magnetics

Sample Date

Declination (°)

Dip Angle **(°)** 

Field Strength

IGRF2005-10

2007-07-11

11.84

65.90

(III)

52,679

Design

Plan #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD)

+N/-S

+E/-W

Direction

(ft) 0.00

(ft) 0.00

(ft) 0.00

(°) 134.06

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+14/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,550.40	14.26	134.06	1,540.62	-81.79	84.53	1.50	1.50	0.00	134.06	
5,429.22	14.26	134.06	5,300.00	-746.00	770.97	0.00	0.00	0.00	0.00	WD C-5-9-16
6,564.17	14.26	134.06	6,400.00	-940.34	971.82	0.00	0.00	0.00	0.00	

#### **Scientific Drilling**

Planning Report

Database:

MultiUserEDM

Company: Newfield Exploration Co. Project:

Site:

Duchesne County, UT Wells Draw C-5-9-16

Well: Wellbore: Design:

Wells Draw C-5-9-16

OH Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Wells Draw C-5-9-16

GL 5782' & RKB 12' @ 5794.00ft (NDSI 2) GL 5782' & RKB 12' @ 5794.00ft (NDSI 2)

True

Minimum Curvature

<b>Depth</b> (ft)  0.00 100.00	Inclination		Verticai						
0.00 100.00						Vertical	Dogleg	Build	Turn
100.00	<b>(°)</b>	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate ("/100ft)	Rate (*/100ft)	Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500,00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600,00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1	.50								
700.00	1.50	134.06	699.99	-0.91	0.94	1.31	1.50	1.50	0.00
800.00	3.00	134.06	799.91	-3.64	3.76	5.23	1.50	1.50	0.00
900.00	4.50	134.06	899.69	-8.19	8.46	11.77	1.50	1.50	0.00
1,000.00	6.00	134.06	999.27	-14.55	15.04	20.92	1.50	1.50	0.00
1,100.00	7.50	134.06	1,098.57	-22.72	23.48	32.68	1.50	1.50	0.00
1,200.00	9.00	134.06	1,197.54	-32.70	33.80	47.03	1.50	1.50	0.00
1,300.00	10.50	134.06	1,296.09	-44.48	45.97	63.96	1.50	1.50	Ω.00
1,400.00	12.00	134.06	1,394.16	-58.04	59.99	83.47	1.50	1.50	0.00
1,500.00	13.50	134.06	1,491.70	-73.39	75.85	105.54	1.50	1.50	0.00
1,550.40	14.26	134.06	1,540.62	-81.79	84.53	117.63	1.50	1.50	0.00
Start 14.26°	Hold At 1550.40								
1,600.00	14.26	134.06	1,588.70	-90.29	93.31	129.84	0.00	0.00	0.00
1,700.00	14.26	134.06	1,685.62	-107.41	111.01	154.47	0.00	0.00	0.00
1,800.00	14.26	134.06	1,782.54	-124.54	128.71	179.09	0.00	0.00	0.00
1,900.00	14.26	134.06	1,879.46	-141.66	146.40	203.72	0.00	0.00	0.00
2,000.00	14.26	134.06	1,976.38	-158.78	164.10	228.34	0.00	0.00	0.00
2,100.00	14.26	134.06	2,073.30	-175.91	181.80	252.97	0.00	0.00	0.00
2,200.00	14.26	134.06	2,170.22	-193.03	199.49	277.59	0.00	0.00	0.00
2,300.00	14.26	134.06	2,267.14	-210.15	217.19	302.22	0.00	0.00	0.00
2,400.00	14.26	134.06	2,364.06	-227.28	234.89	326.84	0.00	0,00	0.00
2,500.00	14.26	134.06	2,460.98	-244.40	252.58	351.47	0.00	0.00	0.00
2,600.00	14.26	134.06	2,557.90	-261.53	270.28	376.10	0.00	0.00	0.00
2,700.00	14.26	134.06	2,654.82	-278.65	287.98	400.72	0.00	0.00	0.00
2,800.00	14.26	134.06	2,751.74	-295.77	305.68	425.35	0.00	0.00	0.00
2,900.00	14.26	134.06	2,848.66	-312.90	323.37	449.97	0.00	0.00	0.00
3,000.00	14.26	134.06	2,945.58	-330.02	341.07	474.60	0.00	0.00	0.00
3,100.00	14.26	134.06	3,042.50	-347.14	358.77	499.22	0.00	0.00	0.00
3,200.00	14.26	134.06	3,139.43	-364.27	376.46	523.85	0.00	0.00	0.00
3,300.00	14.26	134.06	3,139.43	-381.39	394.16	548.47	0.00	0.00	0.00
3,400,00	14.26	134.06	3,333.27	-398.52	411.86	573.10	0.00	0.00	0.00
3,500.00	14.26	134.06		-396.52 -415.64	411.00	573.10 597.72	0.00	0.00	0.00
	14.26		•	-432.76	447.25	622.35	0.00	0.00	0.00
3,600.00 3,700.00		134.06	3,527.11 3,624.03	-432.76 -449.89	447.25 464.95	646.97	0.00	0.00	0.00
3,800.00	14.26 14.26	134.06 134.06	3,720.95	-467.01	482.65	671.60	0.00	0.00	0.00
3,900.00 4,000.00	14.26 14.26	134.06 134.06	3,817.87 3,914.79	-484.14 -501.26	500.34 518.04	696.23 720.85	0.00	0.00	0.00 0.00
4,100.00			4,011.71	-518.38	535.74	745.48	0.00	0.00	0.00
•	14.26	134.06							
4,200.00	14.26	134.06	4,108.63	-535.51	553.43	770.10	0.00	0.00	0.00
4,300.00	14.26	134.06	4,205.55	-552.63	571.13	794.73	0.00	0.00	0.00
4,400.00	14.26	134.06	4,302.47	-569.75	588.83	819.35	0.00	0.00	0.00
4,500.00	14.26	134.06	4,399.39	-586.88	606,53	843.98	0.00	0.00	0.00
4,600.00	14.26	134.06	4,496.31	-604.00	624.22	868.60	0.00	0.00	0.00
4,700.00	14.26	134.06	4,593.23	-621.13	641.92	893.23	0.00	0.00	0.00
4,800.00	14.26	134.06	4,690.15	-638.25	659.62	917.85	0.00	0.00	0.00

#### **Scientific Drilling**

Planning Report

Database:

MultiUserEDM

Company: Project: Newfield Exploration Co.

Duchesne County, UT

Site: Well: Wells Draw C-5-9-16 Wells Draw C-5-9-16

Wellbore: Design:

OH Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Wells Draw C-5-9-16

GL 5782' & RKB 12' @ 5794.00ft (NDSI 2) GL 5782' & RKB 12' @ 5794.00ft (NDSI 2)

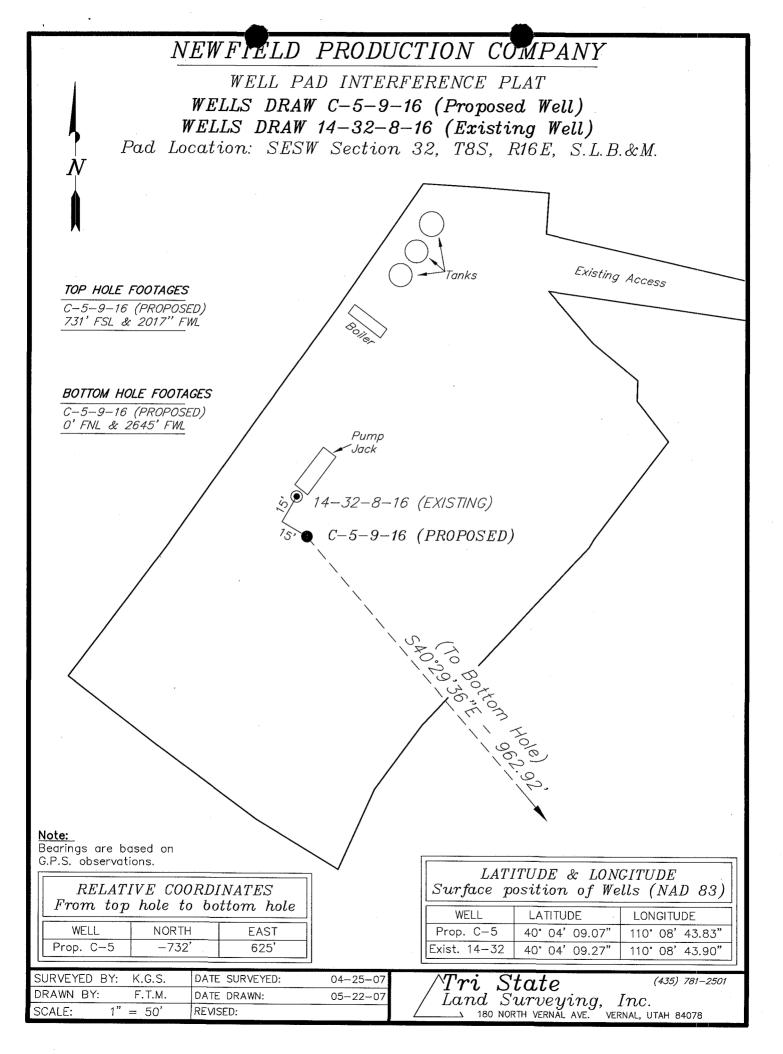
True

Minimum Curvature

ned Survey									
Measured Depth (ft)	inclination (°)	Azimuth	Vertical Depth (ff)	+N/-S (ft)	+E/-W (ff)	Vertical Section (ff)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ff)
5,000.00	14.26	134.06	4,883.99	-672.50	695.01	967.10	0.00	0.00	0,00
5,100.00	14.26	134.06	4,980.92	-689,62	712.71	991.73	0.00	0.00	0.00
5,200.00	14.26	134.06	5,077.84	-706.74	730.40	1,016.36	0.00	0.00	0.00
5,300.00	14.26	134.06	5,174.76	-723.87	748.10	1,040.98	0.00	0.00	0.00
5,400.00	14.26	134.06	5,271.68	-740.99	765.80	1,065.61	0.00	0.00	0.00
5,429.22	14.26	134.06	5,300.00	-746.00	770.97	1,072.80	0.00	0.00	0.00
WD C-5-9-16	1								
5,500.00	14.26	134.06	5,368.60	-758.12	783.50	1,090.23	0.00	0.00	0.00
5,600.00	14.26	134.06	5,465.52	-775.24	801.19	1,114.86	0.00	0.00	0.00
5,700.00	14.26	134.06	5,562.44	-792.36	818.89	1,139.48	0.00	0.00	0.00
5,800.00	14.26	134.06	5,659.36	-809.49	836.59	1,164.11	0.00	0.00	0.00
5,900.00	14.26	134.06	5,756.28	-826.61	854.28	1,188.73	0.00	0.00	0.00
6,000.00	14.26	134.06	5,853.20	-843.73	871.98	1,213.36	0.00	0.00	0.00
6,100.00	14.26	134.06	5,950.12	-860.86	889.68	1,237.98	0.00	.0.00	0.00
6,200.00	14.26	134.06	6,047.04	-877.98	907.37	1,262.61	0.00	0.00	0.00
6,300.00	14.26	134.06	6,143.96	-895.11	925.07	1,287.23	0.00	0.00	0.00
6,400.00	14.26	134.06	6,240.88	-912.23	942.77	1,311.86	0.00	0.00	0.00
6,500.00	14.26	134.06	6,337.80	-929.35	960.47	1,336.49	0.00	0.00	0.00
6,564.17	14.26	134.06	6,400.00	-940.34	971.82	1,352.29	0.00	0.00	0.00

Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (R)	+E/-W (ft)	Northing (ft)	Easting (ft)	<b>Latitude</b>	Longitude
WD C-5-9-16 - plan hits target - Circle (radius 75.0	0.00	0.00	5,300.00	-746.00	770.97	7,196,075.20	2,020,248.40	40° 4' 1.697 N	110° 8′ 33.913 W

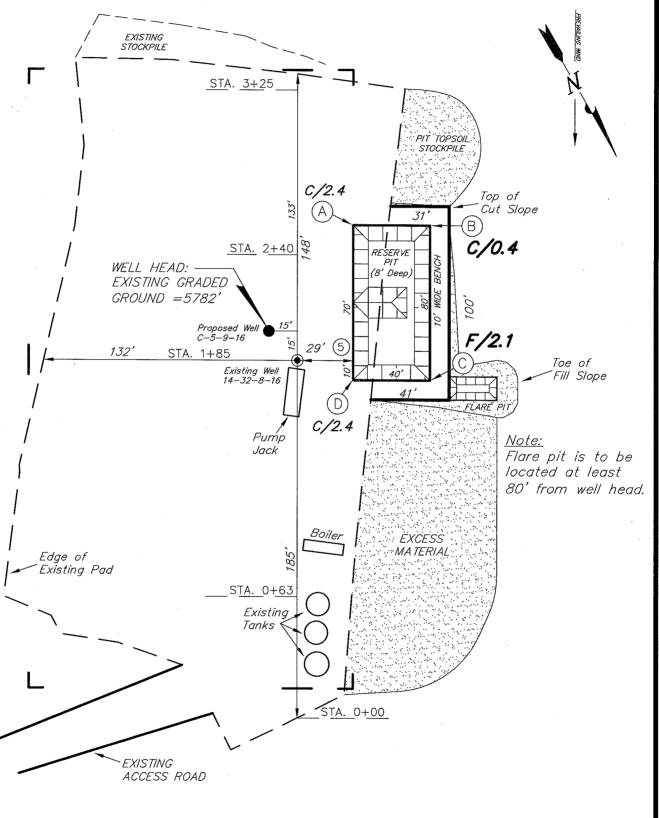
Plan Annotations					
Measu	red	Vertical	Local Coor	dinates	
Dept	h	Depth	+N/-S	+E/-W	
(ft)		(ft)	(ft)	(ft)	Comment
-60	0.00	600.00	0.00	0.00	Start Build 1.50
1,55	0.40	1,540.62	-81.79	84.53	Start 14.26° Hold At 1550.40



## NEWFIELD PRODUCTION COMPANY

WELLS DRAW C-5-9-16 (Proposed Well) WELLS DRAW 14-32-8-16 (Existing Well)

Pad Location: SESW Section 32, T8S, R16E, S.L.B.&M.



SURVEYED BY: K.G.S.	SCALE:	1" = 50'	/ $Tri$ State (435) 781-2501
DRAWN BY: F.T.M.	DATE:	05-22-07	/ Land S' $urveying$ , Inc.  180 north vernal ave. vernal, utah 84078

## NEW FIELD PRODUCTION COMPANY

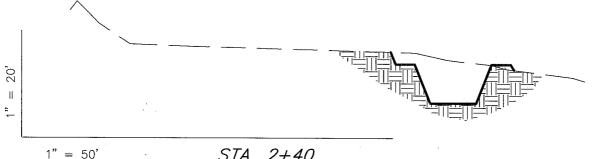
## CROSS SECTIONS

WELLS DRAW C-5-9-16 (Proposed Well) WELLS DRAW 14-32-8-16 (Existing Well)

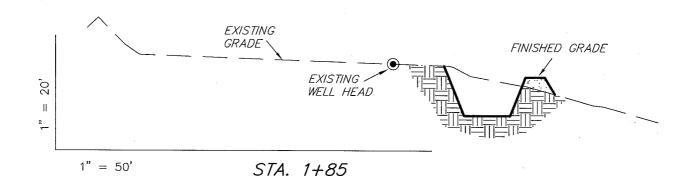


1" = 50'

STA. 3+25



STA. 2+40



20, П

1" = 50'

STA. 0+63

#### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT .	FILL	6" TOPSOIL	EXCESS
PAD	190	190	Topsoil is not included	0
PIT	640	0	in Pad Cut	640
TOTALS	830	190	140	640

UNLESS OTHERWISE NOTED CUT SLOPES ARE AT 1:1 FILL SLOPES ARE AT 1.5:1

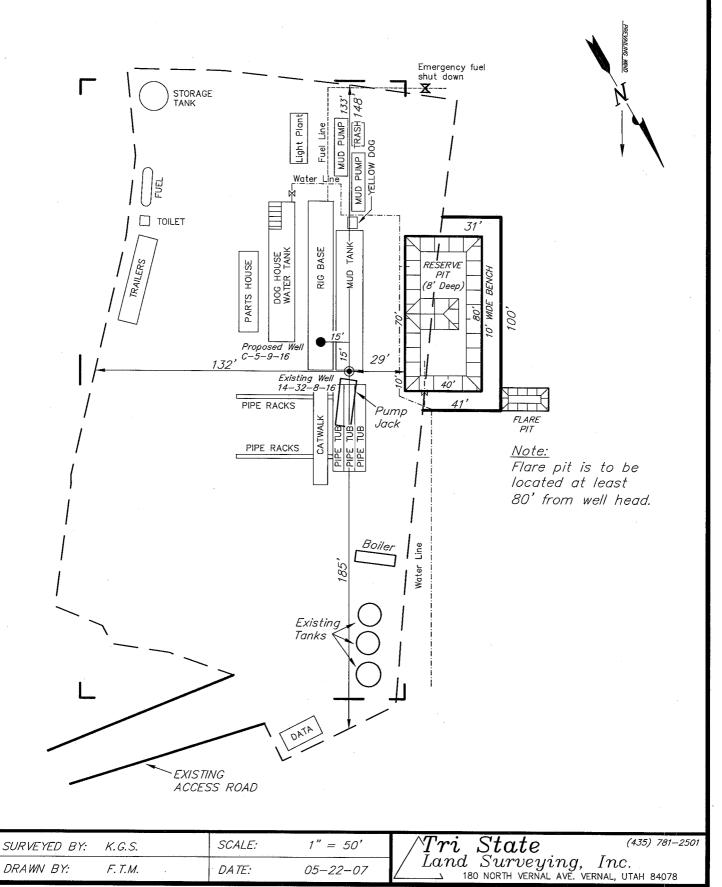
SURVEYED BY:	K.G.S.	SCALE:	1" = 50'
DRAWN BY:	F. T.M.	DATE:	05-22-07

 $Tri~State \ Land~Surveying,~Inc. \ \_\_$  180 North vernal ave. Vernal, utah 84078 (435) 781-2507

## NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

WELLS DRAW C-5-9-16 (Proposed Well) WELLS DRAW 14-32-8-16 (Existing Well)



F. T.M.

DATE:

05-22-07

DRAWN BY:

## ewfield Production Compa Proposed Site Facility Diagram

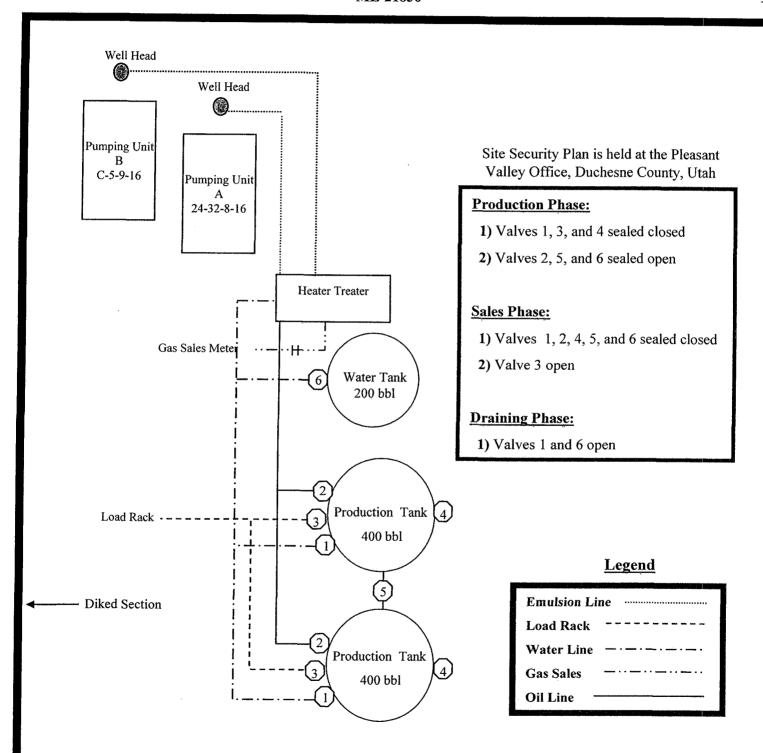
Wells Draw Federal C-5-9-16

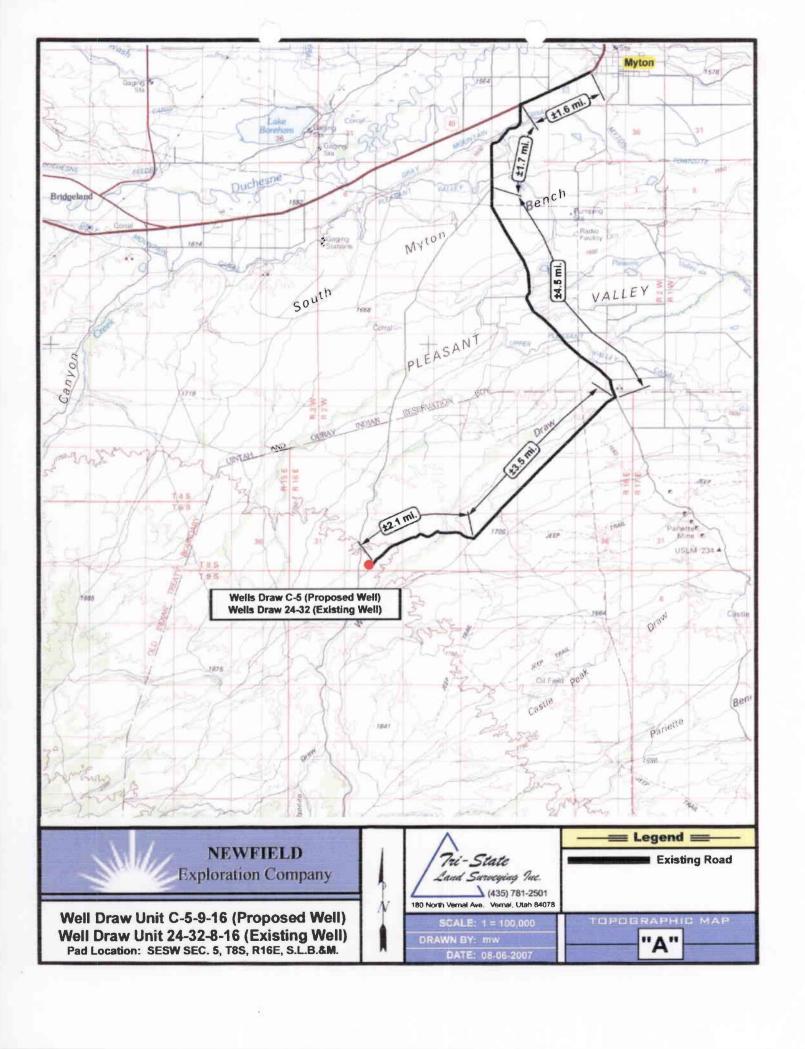
From the State 24-32 Location

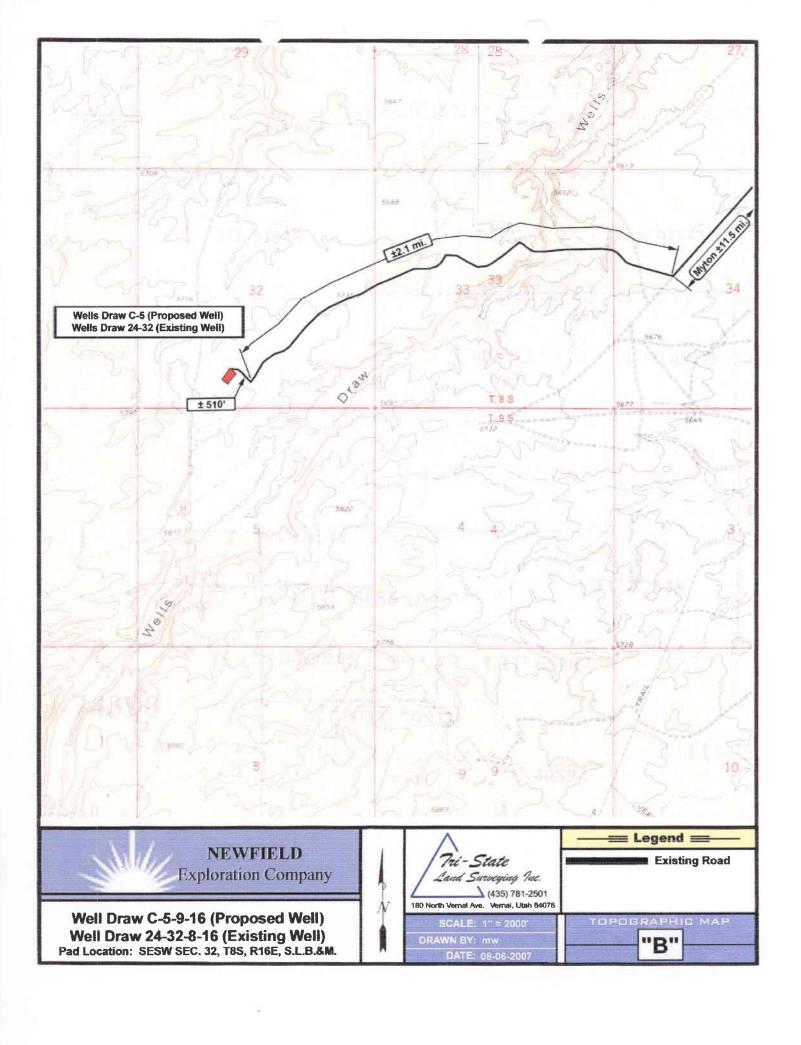
SE/SW Sec. 32 T8S, 16E

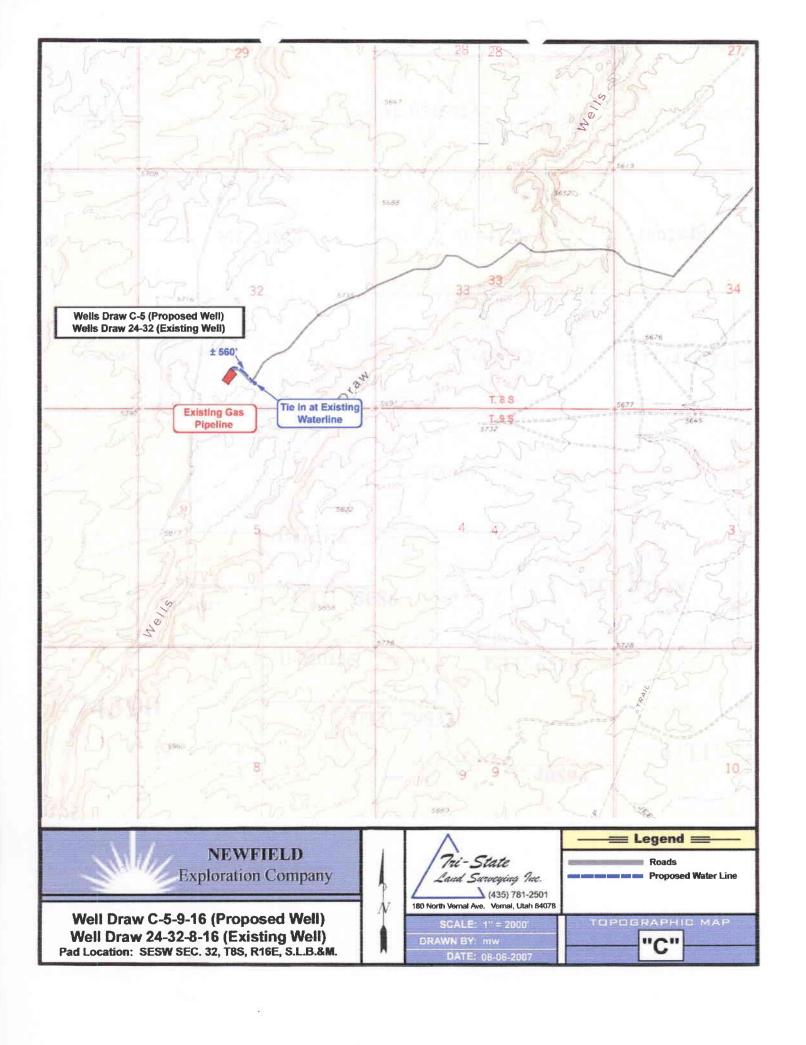
**Duchesne County, Utah** 

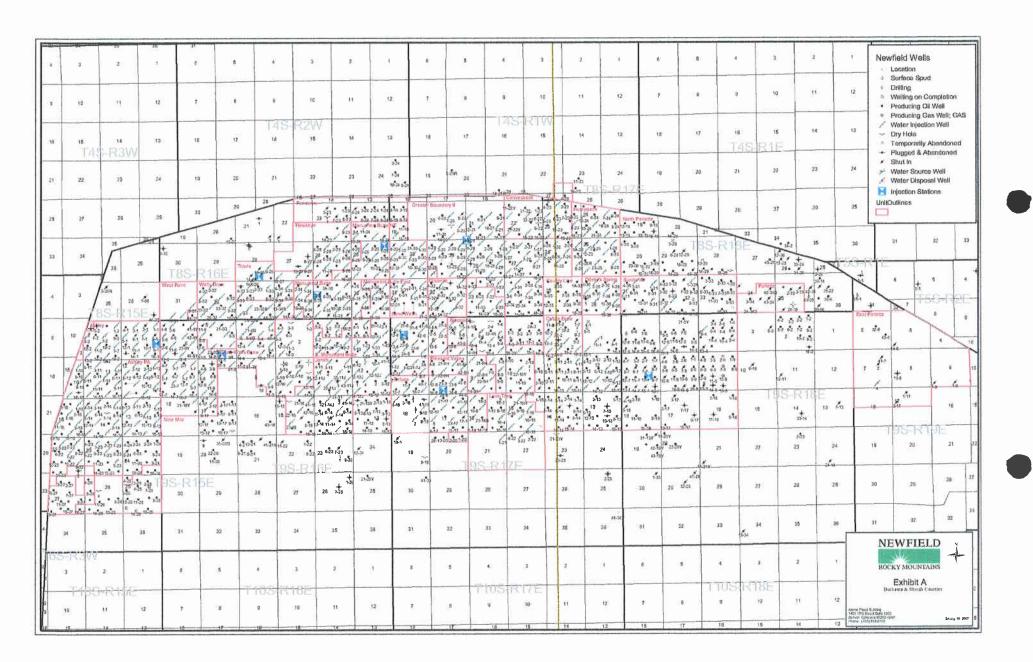
ML-21836

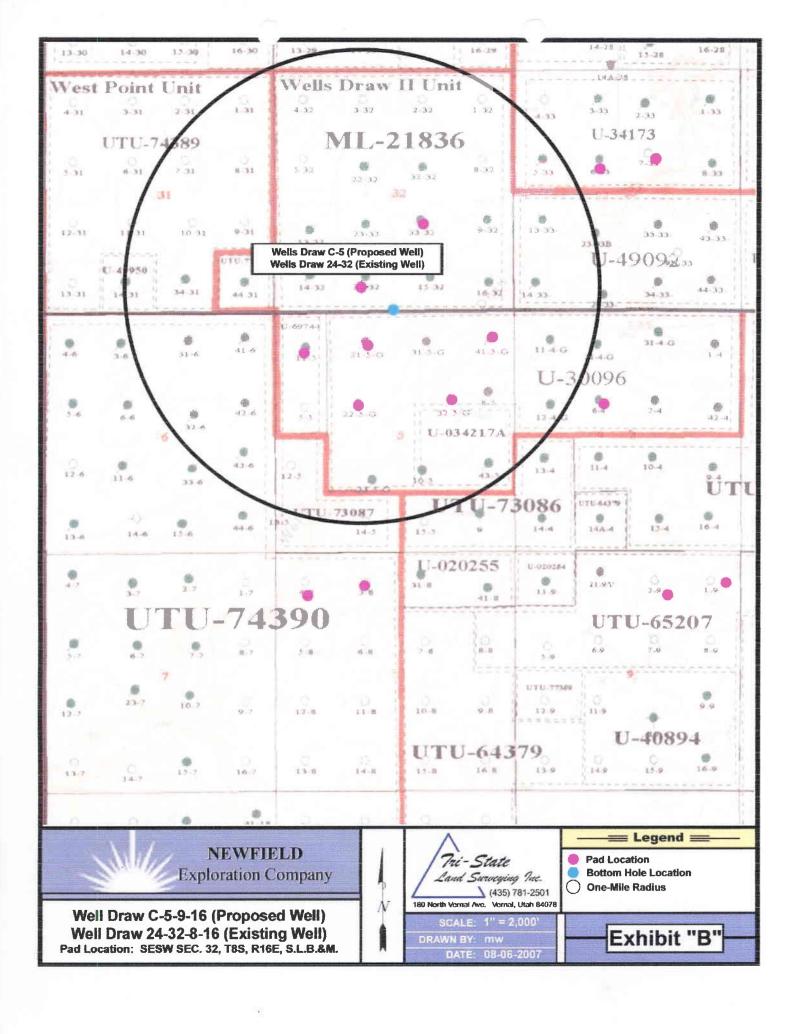






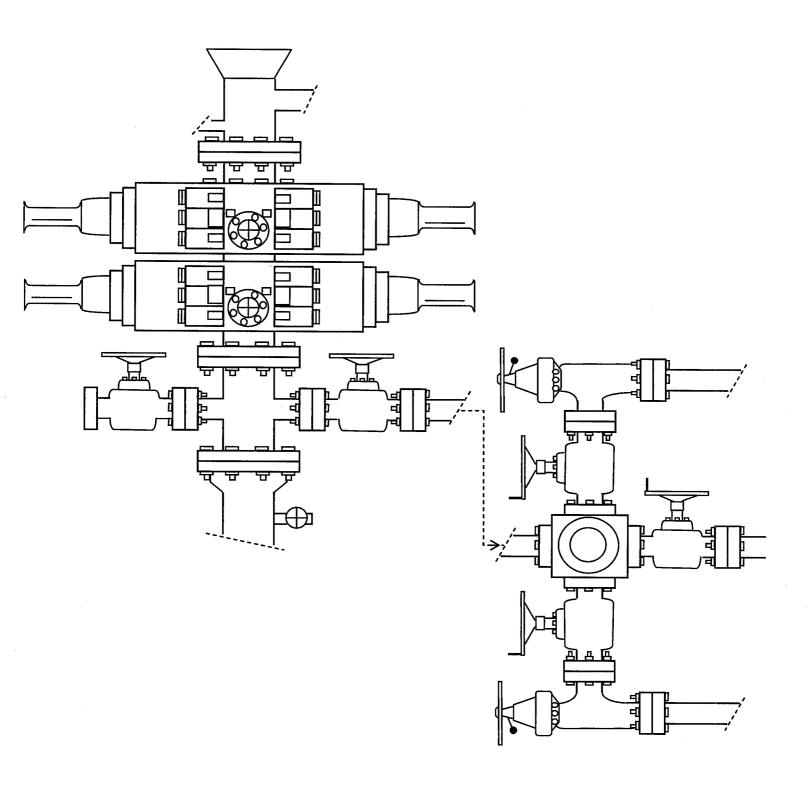






## 2-M SYSTEM

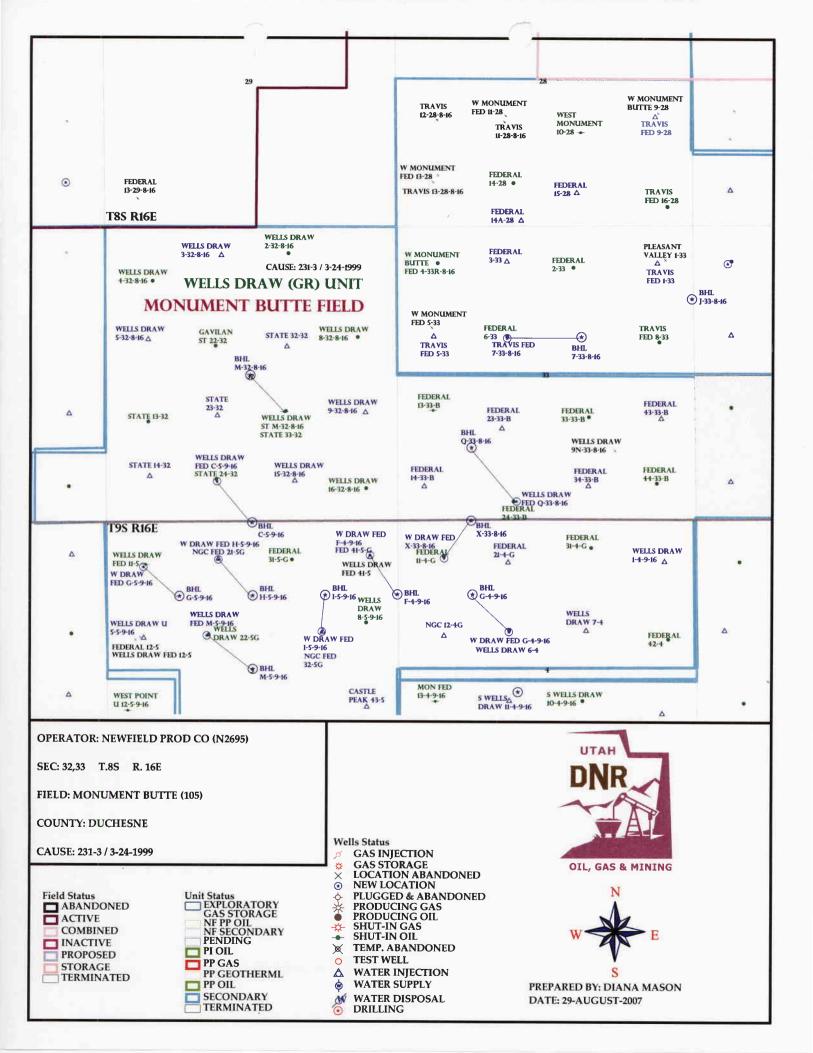
Blowout Prevention Equipment Systems



**EXHIBIT C** 



	:					
APD RECEIVED: 08/20/2007		API NO. ASSIGNED: 43-013-33753				
WELL NAME: WELLS DRAW FED C-5-9-16						
OPERATOR: NEWFIELD PRODUCTION ( N2695 )	)	PHONE NUMBER: 435-646-3721				
CONTACT: MANDIE CROZIER						
PROPOSED LOCATION:		INSPECT LOCATN	BY: /	/		
SESW 32 080S 160E SURFACE: 0731 FSL 2017 FWL		Tech Review	Initials	Date		
BOTTOM: 0000 FNL 2645 FWL Sec 5		Engineering		il e i i i i i i i i i i i i i i i i i i		
COUNTY: DUCHESNE LATITUDE: 40.06922 LONGITUDE: -110.1448		Geology		og∎de <sup>ee</sup> - E <sub>eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee</sub>		
UTM SURF EASTINGS: 572930 NORTHINGS: 4435	580	Surface				
FIELD NAME: MONUMENT BUTTE ( 105	)	<u> </u>				
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-30096  SURFACE OWNER: 3 - State	11	PROPOSED FORMA COALBED METHAN		J		
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. UTB000192 )  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. MUNICIPAL )  RDCC Review (Y/N)  (Date: )  Fee Surf Agreement (Y/N)  Intent to Commingle (Y/N)	I Unit:	LOCATION AND SITING:  R649-2-3.  Unit: WELLS DRAW (GRRV)  R649-3-2. General				
COMMENTS: Meds Deperat	Lesite (	9-14-07)				
stipulations: 15. des (1)	pprove (	OF BASIS				
	<u> </u>		·			



# **Application for Permit to Drill Statement of Basis**

10/1/2007

## Utah Division of Oil, Gas and Mining

Page 1

APD No

API WellNo

Status

Well Type

**Surf Ownr** 

CBM

516

43-013-33753-00-00

OW

S

No

Operato

NEWFIELD PRODUCTION COMPANY

Surface Owner-APD

Well Name WELLS DRAW FED C-5-9-16

Unit

Field

UNDESIGNATED

Type of Work

Location

SESW 32 8S 16E S 731 FSL 2017 FWL

GPS Coord (UTM) 572930E 4435580N

#### **Geologic Statement of Basis**

The Federal Government owns the mineral rights for the proposed well. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill

10/1/2007

**APD** Evaluator

Date / Time

#### **Surface Statement of Basis**

The Wells Draw C-5-9-16 is a directional well to be drilled from the existing location of the Wells Draw 14-24-32-8 oil well. No changes are planned in the location. Reserve pit will be re-dug in previous location.

The surface is SITLA and the minerals are Federal administered by the Bureau of Land Management

Floyd Bartlett

9/14/2007

**Onsite Evaluator** 

Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category

Condition

Pits

A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be

properly installed and maintained in the reserve pit.

#### Utah Division of Oil, Gas and Mining

**Operator** 

NEWFIELD PRODUCTION COMPANY

Well Name

WELLS DRAW FED C-5-9-16

API Number

43-013-33753-0

**APD No** 516

Field/Unit UNDESIGNATED

Location: 1/4,1/4 SESW

**Sec** 32

**Tw** 8S

Rng 16E

731 FSL 2017 FWL

**GPS Coord (UTM)** 

**Surface Owner** 

#### **Participants**

Floyd Bartlett (DOGM), Kim Swasey (Newfield), Charles Macdonald (BLM)

#### Regional/Local Setting & Topography

A directional well to be drilled from the existing location of the Wells Draw 14-24-32-8 oil well. No changes in location. Reserve pit will be re-dug in previous location.

#### Surface Use Plan

**Current Surface Use** 

New Road Miles

1

Well Pad

**Src Const Material** 

**Surface Formation** 

Width

Length

**Ancillary Facilities** 

#### Waste Management Plan Adequate?

#### **Environmental Parameters**

Affected Floodplains and/or Wetland

Flora / Fauna

Soil Type and Characteristics

**Erosion Issues** 

**Sedimentation Issues** 

Site Stability Issues

**Drainage Diverson Required** 

Berm Required?

**Erosion Sedimentation Control Required?** 

Paleo Survey Run?

Paleo Potental Observed?

**Cultural Survey Run?** 

**Cultural Resources?** 

#### Reserve Pit

**Site-Specific Factors** 

one Ranking

Distance to Groundwater (feet)

Distance to Surface Water (feet)

Dist. Nearest Municipal Well (ft)

Distance to Other Wells (feet)

**Native Soil Type** 

Fluid Type

**Drill Cuttings** 

**Annual Precipitation (inches)** 

**Affected Populations** 

**Presence Nearby Utility Conduits** 

**Final Score** 

**Sensitivity Level** 

#### Characteristics / Requirements

A reserve pit 40' x 70' x 8' deep will be re-dug in the same location. Iwill be lined with a 16 mil liner and padded as needed.

**Closed Loop Mud Required?** 

Liner Required?

Liner Thickness 16

Pit Underlayment Required?

#### **Other Observations / Comments**

Floyd Bartlett

**Evaluator** 

9/14/2007

Date / Time



August 23, 2007

State of Utah, Division of Oil, Gas and Mining ATTN: Diana Mason PO Box 145801 Salt Lake City, UT 84114-5801

RE:

**Directional Drilling** 

Wells Draw Federal C-5-9-16

Wells Draw Unit

UTU-72613A

4

Surface Hole:

T9S R16E, Section 32: SE/4SW/4

731' FSL 2017' FWL

Bottom Hole:

T9S R16E, Section 5: Lot 3 (NE/4NW/4)

0' FNL 2645' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated July 31, 2007, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Wells Draw Federal Unit UTU-72613A. Newfield certifies that it is the Wells Draw Unit Operator and all lands within 460 feet of the entire directional well bore are within the Wells Draw Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at <a href="mailto:reveland@newfield.com">reveland@newfield.com</a>. Your consideration of this matter is greatly appreciated.

Sincerely,

NEWFIELD PRODUCTION COMPANY

Rogann Eveland

Roxann Eveland Land Associate

AUG 2 7 2007

Form 3160-3 (September 2001)  UNITED STATES  DEPARTMENT OF THE INTERIOR  BUREAU OF LAND MANAGEMENT  APPLICATION FOR PERMIT TO DRILL OR REENTER				FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004  5. Lease Serial No. UTU-30096		
						(LLN I EIX
Ia. Type of Work: DRILL REENTER				7. If Unit or CA Agreement, Name and No.		
				Wells Draw Unit  8. Lease Name and V	Vall No	<del></del>
Ib. Type of Well: Oil Well Gas Well Other				Wells Draw Federal C-5-9-16		
Name of Operator     Newfield Production Company				9. API Well No.		
3a. Address	3b. Phone No. (include area code)			10. Field and Pool, or Exploratory		
Route #3 Box 3630, Myton UT 84052	(435) 646-3721			Monument Butte		
4. Location of Well (Report location clearly and in accordance with	_	uirements.*)		11. Sec., T., R., M., or	Blk. and Surv	ey or Area
At surface SE/SW 731' FSL 2017' FWL Sec. 32, T8S R16E  At proposed prod. zone NE/NW (LOT #3) 0' FNL 2645' FWL Sec. 5, T9S R16E				Sec. 5, T9S R16E		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13.	State
Approximatley 13.7 miles southwest of Myton, Utah				Duchesne	υ	
<ol> <li>Distance from proposed*         location to nearest         property or lease line, ft.     </li> </ol>	16. No. of Acres in lease 17. Spacin		ng Unit dedicated to this well			
(Also to nearest drig, unit line, if any) Approx. 0' f/lse, 2645' f/unit	602.24		20 Acres			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 1313'			BIA Bond No. on file UTB000192			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*		23. Estimated duration			
5782' GL	4th Quarter 2007		Approximately seven (7) days from spud to rig release.			
	24. Atta	achments	······································			<del>, , , , , , , , , , , , , , , , , , , </del>
The following, completed in accordance with the requirements of Onshor	e Oil and Ga	s Order No.1, shall be att	ached to this	form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System Lands the</li> <li>Operator certification.</li> </ol>				s unless covered by an	existing bond	on file (see
<ol> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	Lands, the		specific info	rmation and/or plans as	may be requ	aired by the
25. Signature		e (Printed/Typed) ndie Crozier		 	Date 7/31/07	
Title Regulatory Specialist						
Approved by (Signature)	Name (Printed/Typed)		1 !	Date		
Title	Office					
Application approval does not warrant or certify the the applicant holds le operations thereon.  Conditions of approval, if any, are attached.	gal or equitab	ole title to those rights in	the subject k	ease which would entitle	the applicant	to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it states any false, fictitious or fraudulent statements or representations as to	a crime for a	ny person knowingly and vithin its jurisdiction.	l willfully to	make to any departmen	it or agency o	f the United
*(Tracturations on manage)						

AUG 27 2007

## **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

August 29, 2007

Memorandum

To:

Assistant District Manager Minerals, Vernal District

From:

Michael Coulthard, Petroleum Engineer

Subject:

2007 Plan of Development Wells Draw Unit,

Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Wells Draw Unit, Duchesne County, Utah.

API#

WELL NAME

LOCATION

(Proposed PZ Green River)

43-013-33753 Wells Draw Fed C-5-9-16 Sec 32 T08S R16E 0731 FSL 2017 FWL BHL Sec 05 T09S R16E 0000 FNL 2645 FWL

43-013-33751 Wells Draw Fed Q-33-8-16 Sec 33 T08S R 16E 0346 FSL 2122 FWL BHL Sec 33 T08S R 16E 1323 FSL 1321 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Wells Draw Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:8-29-07

From:

Ed Bonner

To:

Mason, Diana

Date:

1/8/2008 12:05 PM

**Subject:** 

Well Clearance

CC:

Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

#### ConocoPhillips Company

Utah 29-574D (API 43 015 30735)

#### EOG Resources, Inc

CWU 956-32 (API 43 047 39515)

#### Kerr McGee Oil & Gas Onshore LP

NBU 1021-2N (API 43 047 38840)

#### Newfield Production Company

Wells Draw Fed C-5-9-16 (API 43 013 33753)

State 1A-16-9-16 (API 43 013 33845)

State 2A-16-9-16 (API 43 013 33846)

State 3-16-9-16 (API 43 013 33847)

State 4-16-9-16 (API 43 013 33848)

State 5-16-9-16 (API 43 013 33849)

State 6-16-9-16 (API 43 013 33850)

State 12-16-9-16 (API 43 013 33852)

State 13-16-9-16 (API 43 013 33853)

State 16-16-9-16 (API 43 013 33854)

#### Pioneer Natural Resources USA, Inc.

Main Canyon State 12-16-15-23 (API 43 047 39695)

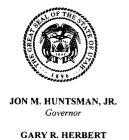
Main Canyon State 34-21-15-23 (API 43 047 39696)

Horse Point State 34-10-16-23 (API 43 019 31558)

Horse Point State 41-1-16-23 (API 43 019 31599)

Grand Canyon State 23-35-15.5-23 (API 43 019 31560)

If you have any questions regarding this matter please give me a call.



Lieutenant Governor

# EPARTMENT OF NA

#### **DEPARTMENT OF NATURAL RESOURCES**

MICHAEL R. STYLER Executive Director

#### Division of Oil Gas and Mining

JOHN R. BAZA Division Director

January 8, 2008

Newfield Production Company Rt. #3, Box 3630 Myton, UT 84052

Re:

Wells Draw Federal C-5-9-16 Well, Surface Location 731' FSL, 2017' FWL, SE SW, Sec. 32, T. 8 South, R. 16 East, Bottom Location 000' FNL, 2645' FWL, NE NW, Sec. 5, T. 9 South, R. 16 East, Duchesne County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33753.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

**Duchesne County Assessor** 

Bureau of Land Management, Vernal Office

SITLA



Operator:	Newfield Production Company				
Well Name & Number	Wells Draw Federal C-5-9-16				
API Number:	43-013-33753				
Lease:	UTU-30096				
Surface Location: SE SW Bottom Location: NE NW	Sec. 32 Sec. 5	T. 8 South T. 9 South	<b>R.</b> 16 East <b>R.</b> 16 East		

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

## RECEIVED: VERNAL FIELD OFFICE

2007 AUG 20 PM 1:58

Form 3160-3 (September 2001)

DEPT. OF THE INTERIOR BUREAU OF LAND MGHT

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. Lease Serial No.

UTU-30096

APPLICATION FOR PERMIT TO DR		6. If Indian, Allottee or Trib	e Name					
			N/A					
1a. Type of Work: DRILL REENTER			7. If Unit or CA Agreement, 1	Name and No.				
ia. Type of work.		Wells Draw Unit						
1b. Type of Well:  Oil Well  Gas Well  Other	Single Zone Multi	ple Zone	Wells Draw Federal C-5-9-1	16				
Name of Operator     Newfield Production Company			9. API Well No. 43 013 33	153				
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explorat	ory				
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		Monument Butte					
4. Location of Well (Report location clearly and in accordance with a	any State requirements.*)		11. Sec., T., R., M., or Blk. and	l Survey or Area				
At surface SE/SW 731' FSL 2017' FWL Sec. 32, T8S R16	6E							
At proposed prod. zone NE/NW (LOT #3) 0' FNL 2645' FWL So		Sec. 5, T9S R16E						
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State				
Approximatley 13.7 miles southwest of Myton, Utah			Duchesne	UT				
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of Acres in lease	No. of Acres in lease 17. Spacing Unit dedicated to this well						
(Also to nearest drig. unit line, if any) Approx. 0' f/lse, 2645' f/unit	602.24		20 Acres					
18. Distance from proposed location*	19. Proposed Depth	20. BLM/E	BIA Bond No. on file					
to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 1313'	6400'	ι	UTB000192					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will sta	rt*	23. Estimated duration					
5782' GL	4th Quarter 2007		Approximately seven (7) days from spud t	o rig release.				
	24. Attachments							
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be at	ached to this	form:					
Well plat certified by a registered surveyor.	4. Bond to cover the Item 20 above).	ne operation	ns unless covered by an existing	bond on file (see				
2. A Drilling Plan.	6 O	ation.						
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	6. Such other site authorized office		ormation and/or plans as may b	e required by the				
25. Signature	Name (Printed/Typed)		Date					
M tandie Copes	Mandie Crozier		7/3	1/07				
Title Regulatory Specialist			<u>.</u>					

VERNAL FIELD OFFICE Lends & Mineral Resources Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Office

Name (Printed/Typed)

JERRY KENCEKA

Conditions of approval, if any, are attached.

Stant Field Menager

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Approved by (Signature,

Title



NOTICE OF APPROVAL

RECEIVED FEB 0 1 2008

Date

DIV. OF OIL, GAS & MINING

NOS 6/11/07 07PP 2174A



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFIC VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company

Location:

SESW, Sec. 5, T9S, R16E

Lot 3, Sec. 5, T9s, R16E

Well No:

Wells Draw Federal C-5-9-16

170 South 500 East

Lease No:

UTU-30096

API No: 43-013-33753

Agreement:

Wells Draw Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	, ,
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction	-	Forty-Eight (48) hours prior to construction of location and
(Notify Environmental Scientist)		access roads.
Location Completion	-	Prior to moving on the drilling rig.
(Notify Environmental Scientist)		
Spud Notice	-	Twenty-Four (24) hours prior to spudding the well.
(Notify Petroleum Engineer)		
Casing String & Cementing	-	Twenty-Four (24) hours prior to running casing and cementing
(Notify Supv. Petroleum Tech.)		all casing strings.
BOP & Related Equipment Tests	-	Twenty-Four (24) hours prior to initiating pressure tests.
(Notify Supv. Petroleum Tech.)		
First Production Notice	-	Within Five (5) business days after new well begins or
(Notify Petroleum Engineer)		production resumes after well has been off production for more
· · · · · · · · · · · · · · · · · · ·		than ninety (90) days.

COAs: Page 2 of 7 Well: Wells Draw Federal C-5-9-16

## SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

## Surface COAs:

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

## Site Specific COAs:

None

COAs: Page 3 of 7 Well: Wells Draw Federal C-5-9-16

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL

#### SITE SPECIFIC DOWNHOLE COAs:

None

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas
  Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from

COAs: Page 4 of 7 Well: Wells Draw Federal C-5-9-16

KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

COAs: Page 5 of 7

## Well: Wells Draw Federal C-5-9-16

### **OPERATING REQUIREMENT REMINDERS:**

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - o Operator name, address, and telephone number.
  - o Well name and number.
  - o Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - o Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

COAs: Page 6 of 7 Well: Wells Draw Federal C-5-9-16

• Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever
  occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

COAs: Page 7 of 7 Well: Wells Draw Federal C-5-9-16

• Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Cor	mpany:	NEWFIELD PRODUCTION COMPANY								
Well Name:		WE	LLS DRA	AW FED	C-5-9-16		·			
Api No:	43-013-337	53	L	ease Typ	e:_FEDER	AL-STATE S	URF			
Section 32	Township_	088	Range_	16E	_County	DUCHESN	Œ			
Drilling Cor	ntractor	ROSS	DRILLI	NG	RIG	#24				
SPUDDE	D:									
	Date	04/29	/08							
	Time	9:30 A	AM	_						
	How	DRY		_						
Drilling wi	II Commend	e:								
Reported by		JO	HNNY D	AVIS						
Telephone#_		(43	<u>35) 823-3</u>	610						
Date	04/29/08	Si	gned	CHD						

NOTE: Use COMMENT section to explain why each Action Code was selected.

OPERATOR: NEWFIELD PRODUCTION COMPANY

ADDRESS: RT. 3 BOX 3630

**MYTON, UT 84082** 

OPERATOR ACCT. NO.

N2696

05/01/08

DIV. OF OIL, GAS & MINING MAY 0 1 2008

ACTION	CURRENT	NEW	API NUMBER	WELL NAME	T		wee	LOCATION			
CODE	ENTITY NO.	ENTETY NO.	<u> </u>		QQ	3C	TIP.	HEZ	COUNTY	SPU0 DATE	EFFECTIVE DATE
В	99999	12418	4301333710	WEST POINT FED 1-7-9-16	NWNE	7	98	16E	DUCHESNE	4/23/2008	5/8/08
WELL 1 CO	GRA	W	BHL=	NWNE							
ACTION CODE	CURPENT ENTITY NO.	NEW ENTITY NO.	APINUMBER	WELL NAME	QQ	- WI	TP TP	RG RG	COUNTY	SPUO	EFFECTIVE
В	99999	12418	4301333711	WEST POINT N-7-9-16	NWSW	7		16E	DUCHESNE	4/22/2008	5/8/08 C
	GRR	V				•	•	<b></b>			EFFECTIVE
ACTION	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	METT NAME			WELL	LOCATION		6PUD	EFFECTIVE
					- QG	80	या	405	COUNTY	CATE	5/8/08
A	99999	16840	4304736243	FEDERAL 5-30-8-18	SWNW	30	88	18E	UINTAH	4/25/2008	5/8/08
ACTION	GRR	New									
CODE	EKRTY NO.	ENTITY NO.	API NUMBER	WELL NAME	- 00	l &C	WELL	CATION	COUNTY	8PUD	EFFECTIVE
В	99999	14844	4304737390	SUNDANCE FED 8-5-9-18	SWHE		98		UINTAH	4/26/2008	5/8/08
	GRRV	ســ و	BHL = NE	INE							- 1
ACTION	CUMPRENT ENTITY NO.	NEW ENTITY NO.	API NAMBER	WELL HAME				OCATION		8PUD	EFFECTIVE
	Estivit No.				90	ec	TP	FRG .	COURTY	DATE	DATE
A WELL 5 CO	99999	16841	4301333235	FEDERAL 16-20-9-17	SESE	20	98	17E	DUCHESNE	4/28/2008	5/8/08
	GRA	W								-	
COOE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME - ON	QQ	sc sc	WELL	OCABON RB		SPUD	EFFECTIVE
В	99999	12276	4301333753	WELLS DRAW C-5-9-16	SESW	8	98	16E	DUCHESNE	4/29/2008	5/8/08
WELL 5 CO	AMENTS:	BHL =	Sec 5 7	95 NEHW		32	85				
	DES (See instruction) on bac awardly for newwell (single								<del>- j</del>	<del>//</del>	
B- 'M	all to existing unity (group or m one existing unity to eastle	mail well) ar existing entity							_ W	Mu	Jeniri Park
	different constantiation and the second	•							gament of		•

FORM 3160-5 (September 2001)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. USA UTU-30096

Do not use	this form for proposals to drill o	r to re-enter an	L.	O37 010-300	770	
abandoned w	vell. Use Form 3160-3 (APD) for	such proposals.	6	If Indian, Allottee or Tribe Name.		
SUBMIT IN T	RIPLICATE - Other Instructio	ns on reverse sid	<b>e</b> 7	. If Unit or CA/A	Agreement, Name and/or	
1. Type of Well Oil Well Gas Well	Пол					
2. Name of Operator	U Other			. Well Name and WELLS DRAW		
NEWFIELD PRODUCTION C	OMPANY		<b> -</b>	. API Well No.	C-3-9-10	
3a. Address Route 3 Box 3630	3b. Pho	one (include are d		4301333753		
Myton, UT 84052 4. Location of Well (Footage.	Sec., T., R., M., or Survey Description)	5.646.3721			ol, or Exploratory Area	
. Document of well 11 bolinge,	Sec., 1., I., M., or Survey Description			MONUMENT I 1. County or Pai		
Section 5 T9S R16E	85	16E	32	DUCHESNE, U		
12. CHECI	K APPROPRIATE BOX(ES) TO	INIDICATE NAT	TURE OF NO			
TYPE OF SUBMISSION			OF ACTION			
□ Notice of Intent □ Subsequent Report	Alter Casing Fr	eepen racture Treat ew Construction	Production(S	Start/Resume)	☐ Water Shut-Off ☐ Well Integrity ☑ Other _	
_		ug & Abandon	Temporarily	Abandon	Weekly Status Report	
Final Abandonment	Convert to	Water Dispo				
csgn to 1,500 psi. Vernal cement & shoe. Drill a 7. log's TD to surface. PU & with 325 sks cement mixe	Rig # 1. Set all equipment. Pressur BLM field, & Roosevelt DOGM of 875 hole with fresh water to a depite TIH with Guide shoe, shoe jt, floated @ 11.0 ppg & 3.43 yld. The 450 pple down Bop's. Drop slips @ 98,	fice was notifed of th of 6506'. Lay do at collar, 147 jt's of O sks cement mixe	ftest. PU BHA own drill string f 5.5 J-55, 15.5 ed @ 14.4 ppg	and tag ceme & BHA. Oper # csgn. Set ( & 1.24 yld. R	ent @ 270'. Drill out n hole log w/ Dig/SP/GR @ 6464.25/KB. Cement Returned 33 bbls of	
I hereby certify that the foregoing is	s true and	Title				
correct (Printed/ Typed)						
James Smith Signature		Drilling Foremen				
		05/22/2008				
100	THIS SPACE FOR FEL	DERAL OR STA	TE OFFICE	USE :		
Approved by		Title		Date	e	
Conditions of approval, if any, are attach	ed. Approval of this notice does not warrant or quitable title to those rights in the subject lease fuct operations thereon.	Office				
Title 18 U.S.C. Section 1001 and Title 43	3 U.S.C. Section 1212, make it a crime for any p	erson knowingly and will	fully to make to any	department or age	ency of the United	

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction (Instructions on reverse)

RECEIVED

MAY 27 2008

## **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			5 1/2"	CASING SET	TAT	6464.25	_		
					Fit clir @	5512.76'			
LAST CASI	NG <u>8 5/8"</u>	SET.	F 321. <u>47'</u>	<del></del>	OPERATOR	₹	Newfield I	Production	Company
DATUM	1;	2			WELL	Wells Dra	w C-5-9-16		
DATUM TO	CUT OFF C	ASING _	12	<u> </u>	FIELD/PRO	SPECT _	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE		•••	CONTRACT	FOR & RIG#		NDSI Rig #	<i>‡</i> 1
TD DRILLER	6490	LOGG	ER						
HOLE SIZE	7 7/8"								
LOG OF CA	SING STRIN	 1G:	**************************************						
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt							14
		Short jt @	34312'						
146	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	Α	6409.7
									0.6
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	41.3
			GUIDE	shoe			8rd	Α	0.65
CASING IN	ENTORY B	AL.	FEET	JTS	TOTAL LENGTH OF STRING 6				
TOTAL LEN	TOTAL LENGTH OF STRING 6466.25			129	LESS CUT OFF PIECE				
LESS NON CSG. ITEMS 15.25				PLUS DATU	ЈМ ТО Т/СИТ	OFF CSG		12	
PLUS FULL JTS. LEFT OUT 177.84			4	CASING SET DEPTH 6464.				6464.25	
	TOTAL		6628.84	151	<u> </u>				
TOTAL CSG	. DEL. (W/O	THRDS)	6628.84	151	∫ СОМРАБ	RE			
TIMING	<del>- ,</del>		1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		5/21/2008	4:00 AM	GOOD CIRC	THRU JOB		yes	
CSG. IN HO	LE		5/21/2008	7:30 AM	Bbis CMT C	IRC TO SUR	FACE	33	
BEGIN CIRC	<u> </u>		5/21/2008	7:45 AM	RECIPROC/	ATED PIPE F	OR	_THRU	FT STROKE
BEGIN PUM	P CMT		5/21/2008	9:40 AM	DID BACK P	RES. VALVI	EHOLD? _	Yes	
BEGIN DSPI	CMT		5/21/2008	10:40 AM	BUMPED PL	UG TO		2078	PSI
PLUG DOWI	И	<del></del>	5/21/2008	11:05 AM					
CEMENT US	ED			CEMENT CO	MPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIV	/ES			
1	325	Premlite II w	/ 10% gel + 3	% KCL, 3#'s /sl	k CSE + 2# sl	k/kolseal + 1	/2#'s/sk Cello	Flake	
		mixed @ 11	.0 ppg W / 3.43	cf/sk yield					
2	450		// 2% Gel + 3%	KCL, .5%EC1	,1/4# sk C.F.	2% gel. 3%	SM mixed @	14.4 ppg W/	1.24 YLD
		TCHER PLAC				SHOW MAK		IG	
Centralizers	- Middle fi	rst, top seco	ond & third. Th	nen every thir	d collar for a	total of 20.			
			······································	·····					

DATE <u>5/21/2008</u>

COMPANY REPRESENTATIVE Jim Smith

### STATE OF UTAH

	DEDARTMENT				
<b>*</b>	DEPARTMENT DIVISION OF		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-30096		
SUNI	DRY NOTICES	AND REP	ORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	ls to drill new wells, significantly orizontal laterals. Use APPLICA				7. UNIT of CA AGREEMENT NAME: WELLS DRAW UNIT
TYPE OF WELL: OIL W	VELL GAS WELL	OTHER			8. WELL NAME and NUMBER: WELLS DRAW C-5-9-16
NAME OF OPERATOR: NEWFIELD PRODUCTION	COMPANY				9. API NUMBER: 4301333753
ADDRESS OF OPERATOR:				PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
Route 3 Box 3630	CITY Myton	STATE UT	ZIP 84052	435.646.3721	MONUMENT BUTTE
LOCATION OF WELL:					
FOOTAGES AT SURFACE:					COUNTY: DUCHESNE
OTR/OTR, SECTION, TOWNSHIP, I	RANGE MERIDIAN: , 5, T9S,	R16E	85	110E	STATE: UT

3. ADDRESS OF OPERATOR:				PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:		
Route 3 Box 3630	CITY Myton S	STATE UT	ZIP 84052	435.646.3721	MONUMENT BUTTE		
4. LOCATION OF WELL:							
FOOTAGES AT SURFACE:					COUNTY: DUCHESNE		
OTR/OTR, SECTION, TOWNSHIP, RANGE.	MERIDIAN: , 5, T9S, R16E		~ -		STATE: UT		
	, , ,		28	11.15	21		
			0,7	100	34		
CHECK APPROF	RIATE BOXES TO	INDICATE	NATURE (	OF NOTICE, REPO	RT, OR OTHER DATA		
TYPE OF SUBMISSION			TY	PE OF ACTION			
D vomen or number	ACIDIZE		DEEPEN		REPERFORATE CURRENT FORMATION		
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING		FRACTURE T	TREAT	SIDETRACK TO REPAIR WELL		
Approximate date work will	CASING REPAIR		NEW CONST	RUCTION	TEMPORARITLY ABANDON		
	CHANGE TO PREVIOUS PL	ANS	OPERATOR O	CHANGE	☐ TUBING REPAIR		
	CHANGE TUBING		PLUG AND A	ABANDON	☐ VENT OR FLAIR		
SUBSEOUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME		PLUG BACK		WATER DISPOSAL		
	CHANGE WELL STATUS		PRODUCTIO	N (START/STOP)	WATER SHUT-OFF		
Date of Work Completion:	COMMINGLE PRODUCING	FORMATIONS	RECLAMATI	ON OF WELL SITE	OTHER: - Weekly Status Report		
07/08/2008	CONVERT WELL TYPE		TE - DIFFERENT FORMATION				
12. DESCRIBE PROPOSED OR CO	MPLETED OPERATIONS	Clearly show al	l nertinent details	s including dates, denths, vo	Jumes etc		
					numes, etc.		
The above subject well was	s completed on 06-19-0	οδ, attached is	a dally comp	letion status report.			

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk DATE\_\_07/08/2008 SIGNATURE

(This space for State use only)

I. TYPE OF WELL:

2. NAME OF OPERATOR:

**RECEIVED** JUL 1 4 2008

## **Daily Activity Report**

Format For Sundry WLLS DRW C-5-9-16 4/1/2008 To 8/30/2008

6/6/2008 Day: 1

Completion

Rigless on 6/5/2008 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6385' & cement top @ 70'. Perforate stage #1, CP4 sds @ 6300-10' & 6130-46' w/ 3-1/8" Slick Guns (19 gram, .49"EH. 120°) w/ 4 spf for total of 104 shots. 136 BWTR. SWIFN.

6/13/2008 Day: 2

Completion

Rigless on 6/12/2008 - Stage #1, CP4 sands. RU BJ Services. 0 psi on well. Frac CP4 & Blksh sds w/ 38,898#'s of 20/40 sand in 489 bbls of Lightning 17 fluid. Broke @ 2859 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2442 psi @ ave rate of 23.5 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 2408 psi. Leave pressure on well. 625 BWTR Stage #2, CP2 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 10' perf gun. Set plug @ 5150'. Perforate CP2 sds @ 6016-26' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 40 shots. RU BJ Services. 2055 psi on well. Frac CP2 sds w/ 25,048#'s of 20/40 sand in 370 bbls of Lightning 17 fluid. Broke @ 3801 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 2536 psi @ ave rate of 23.5 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 2113 psi. Leave pressure on well. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug, 10', 6', 8', 12' & 12' perf gun. Set plug @ 5660'. Perforate LODC sds @ 5548- 58', A3 sds @ 5506-12', 5494-5502', A1 sds @ 5476- 88', A.5 sds @ 5442-54' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 192 shots(2 runs). SIWFN w/ 995 BWTR.

6/14/2008 Day: 3

Completion

Rigless on 6/13/2008 - Stage #3, LODC & A sands. RU BJ Services. 321 psi on well. Frac LODC & A sds w/ 180,423#'s of 20/40 sand in 1259 bbls of Lightning 17 fluid. Broke @ 1500 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1765 psi @ ave rate of 26.5 BPM. Pumped 504 gals of 15% HCL in flush for Stage #4. ISIP 2015 psi. Leave pressure on well. 2254 BWTR. Stage #4, B1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' perf gun. Set plug @ 5390'. Perforate B2 sds @ 5314-30' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots (2 runs due to misfire). RU BJ Services. 1740 psi on well. Frac B2 sds w/ 60,367#'s of 20/40 sand in 528 bbls of Lightning 17 fluid. Broke @ 4185 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1845 psi @ ave rate of 26.2 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1950 psi. Leave pressure on well. 2782 BWTR. Stage #5, D1 sands. RU Perforators WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 16' perf gun. Set plug @ 5150'. Perforate D1 sds @ 5030-46' w/ 3-1/8" Slick Guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. RU BJ Services. 1630 psi on well. Frac D1 sds w/ 101,625#'s of 20/40 sand in 751 bbls of Lightning 17 fluid. Broke @ 2458 psi. Pumped 780 gals of fresh wtr mixed

with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1841 psi @ ave rate of 26.4 BPM. ISIP 2046 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 6 hrs & died. Rec. 360 BTF. SIWFN w/ 3173 BWTR.

#### 6/17/2008 Day: 4

Completion

Western #2 on 6/16/2008 - MIRU Western #2. 50 psi on well. ND Cameron BOP & 5M WH. Talley, PU & RIH w/ 4 3/4" chomp bit, Bit sub & 154 jts 2 7/8 tbg. Tagged sand @ 4840'. RU Nabors power swivel. Circulate sand & drill out plugs as follows. Sand @ 4840', Plug @ 5150' (Drilled up in 10 mins). Circulate well clean w/ EOT @ 5163'. SIWFN w/ 3223 BWTR.

#### 6/18/2008 Day: 5

Completion

Western #2 on 6/17/2008 - Well on vacuum. Continue PU & RIH w/ 4 3/4" chomp bit. Tagged sand @ 5181'. RU Nabors power swivel. Circulate sand & drill out plugs as follows. Sand @ 5181', Plug @ 5390' (Drilled up in 12 mins). Tagged sand @ 5392', Plug @ 5660'(Drilled out in 9 mins). Tagged sand @ 5981', Plug @ 6100' (Drilled up in 7 mins). Tagged sand @ 6290'. Circulate well clean down to PBTD @ 6422'. LD 2-jts of tbg. EOT @ 6359'. RU swab equipment. IFL @ sfc. Made 2 swab runs, Rec 18 BTF. FFL @ 150'. Trace of oil, No sand. SIWFN w/ 3513 BWTR.

#### 6/19/2008 Day: 6

Completion

Western #2 on 6/18/2008 - 0 psi on tbg, 50 psi on csg. RU swab equipment. IFL @ 500'. Made 15 swab runs, Rec 120 BTF. FFL @ 3100'. Trace of oil, No sand. RD swab equipment. PU & RIH w/ 2 jts of tbg. Tagged sand @ 6379'. Circulate well clean to PBTD @ 6422'. LD 9 jts of tbg. TOH w/ tbg. LD bit & bitsub. PU & RIH w/ production tbg as follows: 2 7/8" BP, 4 jt, 2 7/8" nipple, PBGA, 1 jt, SN, 2 jts, TA & 184 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 16,000#'s of tension. Land tbg. NU WH. Flush tbg w/ 60 BW. SIWFN w/ 3513 BWTR.

### 6/20/2008 Day: 7

Completion

Western #2 on 6/19/2008 - 0 psi on tbg, 50 psi on csg. PU & prime rod pump. PU & RIH w/ "A" grade rods as follow: "CDI" 2 1/2" X 1 3/4" X 20', Shear coupling (21K), 4- 1 1/2" wt bars, 230- 7/8" guided rods (8 per), 1-6', 1-4', 1-2' X 7/8" ponie rods, 1 1/2" X 26 Polish rod. Hang head, Space out rods. Fill tbg w/ 5 bbls of wtr. Pressure test w/ unit to 800 psi. RDMOSU. FINAL REPORT!!! POP @ 12:00 W/ 120" SL @ 5 1/2 SPM. 3561 BWTR.

Pertinent Files: Go to File List

## (July 1992)

## **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

(See other instructions ons reverse side)

SUBMIT IN DUPLICATE\* FORM APPROVED OMB NO. 1004-0137

Expires: February 28, 1995

S TRASE DESIGNATION AND SERVAL NO						,	,	-	
5. LEASE DESIGNATION AND SERIAL NO									_
	5	TRAS	E DE	SIC	NATIO	AN MC	mer	TAIG	NIC

		BURE	AU OF	LAND	MANAGEME	ENT					-30096	
WELL CO	OMPLE	ETION	OR R	ECON	<b>IPLETION</b>	REPORT A	ND LOG	*	6. IF INDIAN, A		or tribe name <b>VA</b>	
1a. TYPE OF WORK									7. UNIT AGREE			
		OIL WELL	X	GAS WELL	DRY	Other			l۷	Vells D	Praw Unit	
1b. TYPE OF WELL										-1		
NEW W	ORK	PERMAN	П	PLUG	DIFF	<del>-</del>			8. FARM OR LE	ASE NAM	IE, WELL NO.	
	VER	DEEPEN		BACK	RESVR.	Other				ells Dra	w C-5-9-16	
2. NAME OF OPERATOR		Ne	wfield E	Explorat	tion Company	/			9. WELL NO.	43-013	3-33753	
3. ADDRESS AND TELEPHON									10. FIELD AND	POOL OR	WILDCAT	_
4. LOCATION OF WELL (F					Denver, CC						ent Butte OCK AND SURVEY	_
At Surface					L (SE/SW) Sec.				OR AREA	VI., OK BL	OCK AND SURVEY	
At top prod. Interval reported	d below						i ~ ~ .	,	Se	ec. 5, T	9S, R16E	
At total depth			Θ.	14. API NO.	645' FWL (NE/N'	DATE ISSUED		View	12. COUNTY OR	DADICII	12 OTATE	
181 fn/ 2	417	fel			-013-33753		1/08/08		Duche		13. STATE UT	
15. DATE SPUDDED 16. E 04/29/08	DATE T.D. RE <b>05/1</b>	ACHED 9/08	17. DA		(Ready to prod.) /19/08	18. ELEVATIONS (I 5782		etc.)*	5794' KB		19. ELEV. CASINGHEAI	5
20. TOTAL DEPTH, MD & TVD		21. PLUG BAG	CK T.D., MD		22. IF MULTIPL		23. INTERVALS	ROT	ARY TOOLS		CABLE TOOLS	_
sent la	506		6422'	100	HOW MAN	Y*	DRILLED BY		V			
24. PRODUCING INTERVAL(S)	), OF THIS CO	OMPLETION-		OM, NAME			>		X		25. WAS DIRECTIONAL	
`,	,				River 5030'	-6310'					SURVEY MADE	,
											Yes	
26. TYPE ELECTRIC AND OTH Dual Induction Gu			ensated	Densit	v. Compensa	ted Neutron. 0	GR. Caliner	: Ceme	ent Bond L	oa	27. WAS WELL CORED NO	
23.				CASI	NG RECORD (Rep	ort all strings set in v		,		-9 ]		-
CASING SIZE/GRADE         WEIGHT, LB./FT.         DEPTH SET (MD)         HOLE SIZE         TOP OF CEMENT.           8-5/8" - J-55         24#         321'         12-1/4"         To surface with									AMOUNT PULLED	<u> </u>		
	5-1/2" - J-55											
29. SIZE	TOP (M		ER RECO	M (MD)	SACKS CEMENT*	SCREEN (MD)	30. SIZE	~	TUBING RECO DEPTH SET (MD)		PACKER SET (MD)	
							2-7/8"		EOT @		TA @	_
								<u></u>	6028'		5798'	
31. PERFORATION RECORD INTERY		e and number		ZE .	SPF/NUMBER	32. DEPTH INTI			URE, CEMENT AMOUNT AND I		ZE, ETC. MATERIAL USED	
(CP4 & Blksh) 6	3300'-10',	6130'-46'		9"	4/136	6130'-		Frac	w/ 38,898# 20/40 sand in 489 bbls fluid			
(LODC, A3, A1, & .	· · · · · · · · · · · · · · · · · · ·	6016'-26'		9"	4/40	6016'-		Frac	w/ 25,048# 2	0/40 sa	nd in 370 bbls fluid	<u>d</u>
	94'-5502',			9"	4/192	5442'-	5558'	Frac w	v/ 180,423# 2	0/40 sa	nd in 1259 bbls flu	ıid
		14'-5330'		9"	4/64	5314'-					nd in 528 bbls fluid	_
	(D1) 50	30'-5046'	.4	9"	4/64	5030'-	5046'	Frac v	w/ 101,625# 2	20/40 sa	and in 751 bbls flui	d
											··· ,	
				·				<u> </u>		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
33.* DATE FIRST PRODUCTION		DD OD ICTIO	N METHOD	(Flouring 5	PRODU s lift, pumping-size and					WEILO	ATTIC (Dec. dec. )	
06/19/08		PRODUCTIO	N METHOD			" x 20' RHAC	CDI				ATUS (Producing or shut-i RODUCING	n)
DATE OF TEST	HOUR	S TESTED	СНОКЕ	SIZE	PROD'N. FOR O	ILBBLS.	GASMCF.	WATE	RBBL.		GAS-OIL RATIO	-
07/03/08					>	95	77		116		811	
FLOW. TUBING PRESS.	CASIN	IG PRESSURI		LATED IR RATE	OIL-BBL.	GASMCF.		WATER-	-BBL, OII	L GRAVIT	Y-API (CORR.)	
and the second second second				>				R	ECEN	(ED		
34. DISPOSITION OF GAS (Sold	i, used for fuel	, vented, etc.)		sed for	Fuel			*	TEST WITNESSE			
35. LIST OF ATTACHMENTS	-	7		Jeu IVI	1 UG1	<u></u>	<u> </u>	<u>, h</u>	<b>106 0 4</b> 2	2008		
		$\sqrt{//}$		<del></del>				Bres	<u> </u>		<u></u>	
36. I hereby certify that the fo	oxegolog and	attached in	formation is	s complete				DIV. OF	OIL, GAS 8	MININ	IG 7/04/0000	
SIGNED Jentri Park	<del>- /</del>			· · · · · · · · · · · · · · · · · · ·	TITLE _	Pr	oduction Te	€СП		DATE_	7/24/2008	
Jenuri Park	<i>II</i>											- 31

\*(See Instructions and Spaces for Additional Data on Reverse Side) any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

	L.	TRUE	VERT. DEPTH																		
<b>1ARKERS</b>	TOP		MEAS. DEPTH	3970'	4196	4311	4846'	4880'	4999'	5246'	5362'	5924'	6372'	6485							
38. GEOLOGIC MARKERS		NAME		Garden Gulch Mkr	Garden Gulch 1	Point 3 Mkr	X Mkr	Y-Mkr	Douglas Creek Mkr	BiCarbonate Mkr	B Limestone Mkr	Castle Peak	Basal Carbonate	I otal Depth (LUGGEKS			·				
SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):	DESCRIPTION, CONTENTS, ETC.			Well Name	Wells Draw C-5-9-10																
cones of porosity and con sed, time tool open, flowi	BOTTOM				1												-				
(Show all important z rval tested, cushion us	TOP								_							 		 	 		
SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);	FORMATION																				

Magnetic Field Strength: 52587.7snT Dip Angle: 65.88° Date: 6/27/2008 Model: IGRF200510 Azimuths to Grid North True North: -0.87° Magnetic North: 10.85° 8 Date: 8:38, June 27 2008 Survey: Survey #1 (C-5-9-16/Wellbore #1) THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUALFIELD DATA. 6502 0000 800 C-5-9-16/SURVEY Created By: Jim hudson 00ş<sub>×</sub> C-5-9-16 TG 000 West(-)/East(+) (200 ft/in) 200 | DIRECTIONAL & MWD SHIVICES Project: USGS Myton SW (UT) Site: SECTION 5 Well: C-5-9-16 FINAL SURVEY REPORT Wellbore: Wellbore #1 Design: SURVEY -800 -200-(ni\î) 00S) (+)dhoV\(-)diuo8 § 3000 C-5-9-16/SURVEY Vertical Section at 134.06° (1500 ft/in) -C-5-9-16 TGT 120 150 NEWFIELD بې -1500--0009 True Vertical Depth (1500 ft/in)



## **NEWFIELD EXPLORATION**

USGS Myton SW (UT) SECTION 5 C-5-9-16

Wellbore #1

Survey: Survey #1

## **Standard Survey Report**

27 June, 2008





## **Hathaway Burnham**

Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: SECTION 5

Wellbore: Design:

C-5-9-16 Wellbore #1 SURVEY

Local Co-ordinate Reference:

Well C-5-9-16

TVD Reference:

MD Reference:

C-5-9-16 @ 5794.0ft (KB ELEVATION) C-5-9-16 @ 5794.0ft (KB ELEVATION)

North Reference:

Grid

**Survey Calculation Method:** Minimum Curvature

Database:

EDM 2003.21 Single User Db

Project

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: Geo Datum:

US State Plane 1983

System Datum:

Mean Sea Level

Map Zone:

North American Datum 1983

Utah Central Zone

Using geodetic scale factor

Site

SECTION 5, SEC 5 T8S, R16E

Site Position:

7,198,917.07ft

Latitude:

40° 4' 30.000 N

From:

Lat/Long

Northing: Easting:

2,019,727.79ft

Longitude:

**Position Uncertainty:** 

Slot Radius:

**Grid Convergence:** 

110° 8' 40.000 W

0.0 ft

0.87°

Well

C-5-9-16, SHL 40 04' 09.07", 110 08' 43.83"

0.0 ft

**Well Position** 

**Position Uncertainty** 

+N/-S

0.0 ft 0.0 ft

Northing:

7,196,795.00 ft

Latitude:

+E/-W

Easting: Wellhead Elevation: 2,019,462.18 ft

11.72

Longitude: **Ground Level:** 

65.88

40° 4' 9.069 N 110° 8' 43.830 W

0.0 ft

52,588

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

6/27/2008

**Declination** (°)

Dip Angle (°)

Field Strength

(nT)

IGRF200510

Design Audit Notes:

Version:

1.0

SURVEY

Phase:

**ACTUAL** 

Tie On Depth:

**Vertical Section:** 

Depth From (TVD) (ft) 0.0

+N/-S (ft) 0.0

+E/-W (ft) 0.0

Direction (°)

134.06

**Survey Program** 

Date 6/27/2008

6,502.0 Survey #1 (Wellbore #1)

From (ft)

385.0

То

(ft) Survey (Wellbore) **Tool Name** 

MWD

Description MWD - Standard

Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
385.0	0.80	47.10	385.0	1.8	2.0	0.1	0.21	0.21	0.00
478.0	1.30	162.20	478.0	1.3	2.8	1.1	1.93	0.54	123.76
570.0	3.90	161.30	569.9	-2.7	4.1	4.8	2.83	2.83	-0.98
662.0	5.70	155.30	661.6	-9.8	7.0	11.9	2.03	1.96	-6.52
755.0	7.50	150.10	753.9	-19.3	12.0	22.0	2.04	1.94	-5.59
847.0	9.40	148.50	844.9	-30.9	18.9	35.0	2.08	2.07	-1.74
941.0	10.50	142.00	937.5	-44.2	28.2	51.0	1.67	1,17	-6.91
1,035.0	12.40	143.10	1,029.6	-59.0	39.5	69.4	2.03	2.02	1.17
1,129.0	13.50	136.90	1,121.3	-75.1	53.1	90.3	1.88	1.17	-6.60
1,222.0	13.70	136.80	1,211.6	-91.0	68.0	112.2	0.22	0.22	-0.11
1,285.0	13.80	137.10	1,272.8	-102.0	78.2	127.1	0.19	0.16	0.48
1,378.0	13.90	132.30	1,363.1	-117.6	94.0	149.4	1.24	0.11	-5.16



### **Hathaway Burnham**

Survey Report

TVD Reference:



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site:

**SECTION 5** 

Well: Wellbore: C-5-9-16 Wellbore #1

Design:

SURVEY

Local Co-ordinate Reference:

Well C-5-9-16

C-5-9-16 @ 5794.0ft (KB ELEVATION) C-5-9-16 @ 5794.0ft (KB ELEVATION)

MD Reference: North Reference:

Grid

**Survey Calculation Method:** 

Minimum Curvature

Database:

EDM 2003.21 Single User Db

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
1,472.0	13.80	132.50	1,454.4	-132.8	110.7	171.9	0.12	-0.11	0.21
1,566.0	13.80	132.50	1,545.7	-147.9	127.2	194.3	0.00	0.00	0.00
1,659.0	13.90	131.10	1,636.0	-162.8	143.8	216.5	0.38	0.11	-1.51
1,753.0	13.80	130.00	1,727.3	-177.4	160.9	239.0	0.30	-0.11	-1.17
1,847.0	12.20	130.30	1,818.8	-191.0	177.0	260.1	1.70	-1.70	0.32
1,941.0	11.70	129.00	1,910.8	-203.5	192.0	279.5	0.60	-0.53	-1.38
2,034.0	11.70	136.70	2,001.9	-216.3	205.8	298.3	1.68	0.00	8.28
2,128.0	12.30	141.10	2,093.8	-231.0	218.7	317.8	1.16	0.64	4.68
2,221.0	13.30	139.90	2,184.5	-246.9	231.8	338.2	1.11	1.08	-1.29
2,315.0	12.50	139.90	2,276.1	-262.9	245.3	359.1	0.85	-0.85	0.00
2,409.0	12.70	136.40	2,367.9	-278.2	259.0	379.5	0.84	0.21	-3.72
2,502.0	13.80	132.70	2,458.4	-293.1	274.2	400.9	1.49	1.18	-3.98
2,595.0	12.90	133.80	2,548.9	-307.8	289.8	422.3	1.01	-0.97	1.18
2,689.0	12.00	132.20	2,640.7	-321.7	304.6	442.6	1.03	-0.96	-1.70
2,783.0	10.50	132.70	2,732.9	-334.0	318.2	460.9	1.60	-1.60	0.53
2,877.0	9.50	138.60	2,825.4	-345.7	329.6	477.2	1.52	-1.06	6.28
2,970.0	9.60	134.90	2,917.2	-356.9	340.1	492.6	0.67	0.11	-3.98
3,064.0	12.20	133.50	3,009.5	-369.3	352.9	510.4	2.78	2.77	-1.49
3,158.0	12.70	132.30	3,101.2	-383.0	367.8	530.6	0.60	0.53	-1.28
3,283.0	12.00	133.80	3,223.3	-401.3	387.3	557.4	0.62	-0.56	1.20
3,376.0	13.40	135.20	3,314.1	-415.6	401.9	577.8	1.54	1.51	1.51
3,439.0	15.10	135.20	3,375.1	-426.6	412.8	593.3	2.70	2.70	0.00
3,533.0	16.90	131.30	3,465.5	-444.3	431.7	619.2	2.23	1.91	-4.15
3,626.0	16.10	129.80	3,554.7	-461.5	451.7	645.6	0.97	-0.86	-1.61
3,720.0	14.90	127.00	3,645.2	-477.1	471.4	670.6	1.50	~1.28	-2.98
3,813.0	14.90	133.10	3,735.1	-492.5	489.7	694.4	1.69	0.00	6.56
3,907.0	14.60	133.90	3,826.0	-509.0	507.1	718.3	0.39	-0.32	0.85
4,001.0	13.50	132.00	3,917.2	-524.5	523.7	741.1	1.27	-1.17	-2.02
4,094.0	11.60	129.30	4,008.0	-537.7	539.1	761.3	2.14	-2.04	-2.90
4,188.0	12.00	130.10	4,100.0	-550.0	553.8	780.5	0.46	0.43	0.85
4,282.0	12.40	128.40	4,191.9	-562.6	569.2	800.3	0.57	0.43	-1.81
4,375.0	14.30	133.10	4,282.4	-576.6	585.4	821.7	2.35	2.04	5.05
4,469.0	13.30	132.60	4,373.6	-591.9	601.9	844.1	1.07	-1.06	-0.53
4,563.0	13.90	135.90	4,465.0	-607.3	617.7	866.2	1.04	0.64	3.51
4,656.0	12.70	138.30	4,555.5	-622.9	632.3	887.6	1.42	-1.29	2.58
4,750.0	13.50	141.30	4,647.1	-639.2	646.0	908.7	1.12	0.85	3.19
4,844.0	12.90	141.90	4,738.6	-656.0	659.3	930.0	0.65	-0.64	0.64
4,937.0	14.60	141.90	4,828.9	-673.4	673.0	951.9	1.83	1.83	0.00
5,031.0	14.00	141.80	4,920.0	-691.7	687.3	974.9	0.64	-0.64	-0.11
5,125.0	14.50	136.80	5,011.1	-709.2	702.4	997.9	1.41	0.53	-5.32
5,218.0	14.60	138.60	5,101.1	-726.5	718.1	1,021.3	0.50	0.11	1.94
5,312.0	12.50	133.90	5,192.5	-742.4	733.3	1,043.2	2.52	-2.23	-5.00
5,406.0	11.00	133.80	5,284.5	-755.7	747.1	1,062.4	1.60	-1.60	-0.11
5,500.0	10.00	127.00	5,377.0	-766.8	760.1	1,079.5	1.69	-1.06	-7.23
5,594.0	10.90	126.10	5,469.4	-777.0	773.8	1,096.4	0.97	0.96	-0.96
5,687.0	10.40	129.60	5,560.8	-787.5	787.4	1,113.4	0.88	-0.54	3.76
5,781.0	9.60	133.20	5,653.4	-798.3	799.6	1,129.7	1.08	-0.85	3.83
5,875.0	10.70	136.80	5,745.9	-810.0	811.3	1,146.3	1.35	1.17	3.83
5,968.0	10.50	143.90	5,837.3	-823.1	822.2	1,163.3	1.42	-0.22	7.63
6,062.0	10.60	146.30	5,929.7	-837.2	832.0	1,180.1	0.48	0.11	2.55
6,156.0	10.30	149.80	6,022.2	-851.7	841.1	1,196.7	0.75	-0.32	3.72
6,249.0	10.50	152.60	6,113.6	-866.4	849.2	1,212.7	0.58	0.22	3.01
6,343.0	11.20	158.90	6,206.0	-882.5	856.4	1,229.1	1.46	0.74	6.70
6,442.0	11.10	166.50	6,303.1	-900.8	862.1	1,245.9	1.49	-0.10	7.68



## **Hathaway Burnham**

Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project: \_

USGS Myton SW (UT)

Site: Well: SECTION 5 C-5-9-16

Wellbore: Design:

Wellbore #1 SURVEY

**Local Co-ordinate Reference:** 

Well C-5-9-16

**TVD Reference:** MD Reference:

C-5-9-16 @ 5794.0ft (KB ELEVATION) C-5-9-16 @ 5794.0ft (KB ELEVATION)

North Reference:

Grid

**Survey Calculation Method:** 

Database:

Minimum Curvature

EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,502.0	11.00	174.00	6,362.0	-912.1	864.0	1,255.2	2.40	-0.17	12.50	

**Design Targets Target Name** - hit/miss target Dip Angle Dip Dir. TVD +N/-S +E/-W **Northing Easting** - Shape (°) (ft) (ft) (ft) (ft) (ft) Latitude Longitude C-5-9-16 TGT 0.00 0.00 5,300.0 2,020,233.11 -746.0 771.0 7,196,049.07 40° 4' 1.583 N 110° 8' 34.060 W - survey misses by 24.7ft at 5423.4ft MD (5301.6 TVD, -757.9 N, 749.5 E) - Circle (radius 75.0)

Checked By:	Amman and Dis	<b>_</b> .	
Checked by.	Approved By:	Date:	